

CODE ANALYSIS

APPLICABLE CODES			
	Year		Year
International Building Code	2006	National Electrical Code	2005
International Mechanical Code	2006	Uniform Code for	
International Plumbing Code	2006	Building Conservation	N/A
International Fire Code	N/A	ADA Accessibility	
International Energy		Guidelines	N/A
Conservation Code	N/A	DEMOLITION ONLY	

A. Occupancy and Group: EXISTING HEATING CENTRAL PLANT-DEMOLITION

Change in Use: Yes ☒ No ☐ Mixed Occupancy: Yes ☐ No ☒
Special Use and Occupancy (e.g. High Rise, Covered Mall): CENTRAL PLANT

B. Seismic Design Category: _____ Design Wind Speed: _____ mph

C. Type of Construction (circle one): EXISTING HEATING CENTRAL PLANT

☐ A ☐ B ☐ A ☐ B ☐ A ☐ B ☐ HT ☐ A ☐ B

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours): N/A

North: _____ South: _____ East: _____ West: _____

E. Mixed Occupancies: N/A Nonseparated Uses: N/A

F. Sprinklers:

Required: _____ Provided: _____ Type of Sprinkler System: _____

G. Number of Stories: TWO Building Height: _____

H. Actual Area per Floor (square feet): N/A

I. Tabular Area: N/A

J. Area Modifications: N/A

a) $A_a = A_t + \left[\frac{A_t I_t}{100} \right] + \left[\frac{A_t I_s}{100} \right]$ $I_t = 100 \left[\frac{F}{P} - 0.25 \right] \frac{W}{30}$

b) Sum of the Ratio Calculations for Mixed Occupancies:

$\frac{\text{Actual Area}}{\text{Allowable Area}} \leq 1$

c) Total Allowable Area for:

- 1) One Story: _____
2) Two Story: $A_a(2)$ _____
3) Three Story: $A_a(3)$ _____

d) Unlimited Area Building: Yes _____ No _____ Code Section: _____

K. Fire Resistance Rating Requirements for Building Elements (hours): N/A

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls			Floors - Ceiling Floors		
Interior Bearing Walls			Roofs - Ceiling Roofs		
Exterior Non-Bearing Walls			Exterior Doors and Windows		
Structural Frame			Shaft Enclosures		
Partitions - Permanent			Fire Walls		
Fire Barriers			Fire Partitions		
			Smoke Partitions		

L. Design Occupant Load: N/A

Exit Width Required: _____ Exit Width Provided: _____

M. Minimum Number of Required Plumbing Facilities: N/A

- a) Water Closets - Required (m) _____ (f) _____ Provided (m) _____ (f) _____
b) Lavatories - Required (m) _____ (f) _____ Provided (m) _____ (f) _____
c) Bath Tubs or Showers: _____
d) Drinking Fountains: _____ Service Sinks: _____

FOOTNOTES:

- 1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through V - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.
- 2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
- a) High Rise Requirements.
b) Atriums.
c) Performance Based Criteria.
d) Means or Egress Analysis.
e) Fire Assembly Locator Sheet.
f) Exterior and Interior Accessibility Route.
g) Fire Stopping, Including Tested Design Number.

WEBER STATE UNIVERSITY
HEATING PLANT - BOILER REPLACEMENT
DEMOLITION PHASE

DFCM PROJECT NO. 07049810
OGDEN CITY, UTAH



State of Utah—Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION
AND MANAGEMENT

4110 State Office Building / Salt Lake City, Utah 84114 / 538-3018

DRAWING INDEX:

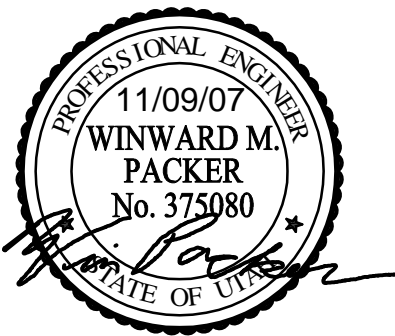
- G001 - COVER SHEET
M001 - MECHANICAL GENERAL NOTES & LEGEND
MD101 - LOWER LEVEL BOILER ROOM MECHANICAL AND PIPING DEMOLITION PLAN
MD102 - UPPER LEVEL BOILER ROOM MECHANICAL DEMOLITION PLAN
MD103 - BOILER #1 DEMOLITION PHOTOGRAPHS
MD104 - BOILER #2 DEMOLITION PHOTOGRAPHS
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MD106 - ROOF & CATWALK DEMOLITION PHOTOGRAPHS



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Department of Administrative Services

DFCM

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PROJECT NAME & ADDRESS

WEBER STATE
UNIVERSITY HEATING
PLANT - BOILER
REPLACEMENT

DFCM No. 07049810

Ogden, Utah

MARK

DATE

REVISION

PROJECT MANAGER:
SLW

DRAWN BY:
LGD

CHECKED BY:
SLW/WP

DATE:
11/9/07

WHW JOB NO.:
07037

SHEET TITLE

11/09/07



WINWARD M.
PACKER

No. 373080

STATE OF UTAH

MECHANICAL GENERAL
NOTES AND LEGEND

SHEET NO.
M001

MECHANICAL LEGEND								
SYMBOL	ABR.	DESCRIPTION	SYMBOL	ABR.	DESCRIPTION	SYMBOL	ABR.	DESCRIPTION
GENERAL TERMINOLOGY			WET SIDE		WET SIDE CONT			
		SECTION LETTER DESIGNATION			UNION			PITCH DOWN
		SECTION DRAWN ON THIS SHEET			MANUAL ACTUATOR (BALL, BUTTERFLY, NEEDLE, ETC. VALVES)			ELBOW UP
		DETAIL NUMBER DESIGNATION CORRESPONDING WITH GRID LOCATION			MANUAL ACTUATOR (GATE, GLOBE, S&D, OS&Y, ETC. VALVES)			ELBOW DOWN
		MECHANICAL EQUIPMENT DESIGNATION			THREADED OR SWEAT VALVE CONNECTION			TEE UP
		EQUIPMENT ITEM DESIGNATION			FLANGED VALVE CONNECTION			TEE DOWN
		GRILLE, OR LOUVER DESIGNATION WHERE BALANCING NOT REQUIRE			BUTTERFLY VALVE			EXISTING PIPING TO BE REMOVED
		REVISION DESIGNATOR AND NUMBER			GATE VALVE			EXISTING PIPING TO REMAIN
		KEY NOTE DESIGNATOR AND NUMBER			CHECK VALVE			NEW PIPING
	POC	POINT OF CONNECTION		PRV	PRESSURE REDUCING VALVE			PIPE CAP OR PLUG
	POR	POINT OF REMOVAL		CBV	CIRCUIT BALANCING VALVE			CONCENTRIC REDUCER
AFF		ABOVE FINISHED FLOOR		BV	BALL VALVE			ECCENTRIC REDUCER
± EL.		CENTER LINE ELEVATION		PRV	PRESSURE RELIEF VALVE			EXPANSION JOINT
GC		GENERAL CONTRACTOR			AUTOMATIC AIR VENT			NATURAL GAS PIPING
MC		MECHANICAL CONTRACTOR			MANUAL AIR VENT		CW	CULINARY COLD WATER
EC		ELECTRICAL CONTRACTOR			STRAINER		D	EQUIPMENT DRAIN
NIC		NOT IN CONTRACT			STRAINER W/ PLUGGED BLOW OFF		HPS	HIGH PRESSURE STEAM
NTS		NOT TO SCALE		VTI	VENTURI		HPR	HIGH PRESSURE RETURN
SYMBOL	ABR.	DESCRIPTION			PRESSURE GAUGE AND GAUGE COCK - WATER		BFW	BOILER FEEDWATER
		EXISTING EQUIPMENT TO BE REMOVED			THERMOMETER AND THERMOWELL		FOS	FUEL OIL SUPPLY
		EXISTING EQUIPMENT TO REMAIN			THERMOWELL		FOR	FUEL OIL RETURN
		NEW EQUIPMENT			DIRECTION OF FLOW			

GENERAL NOTES:

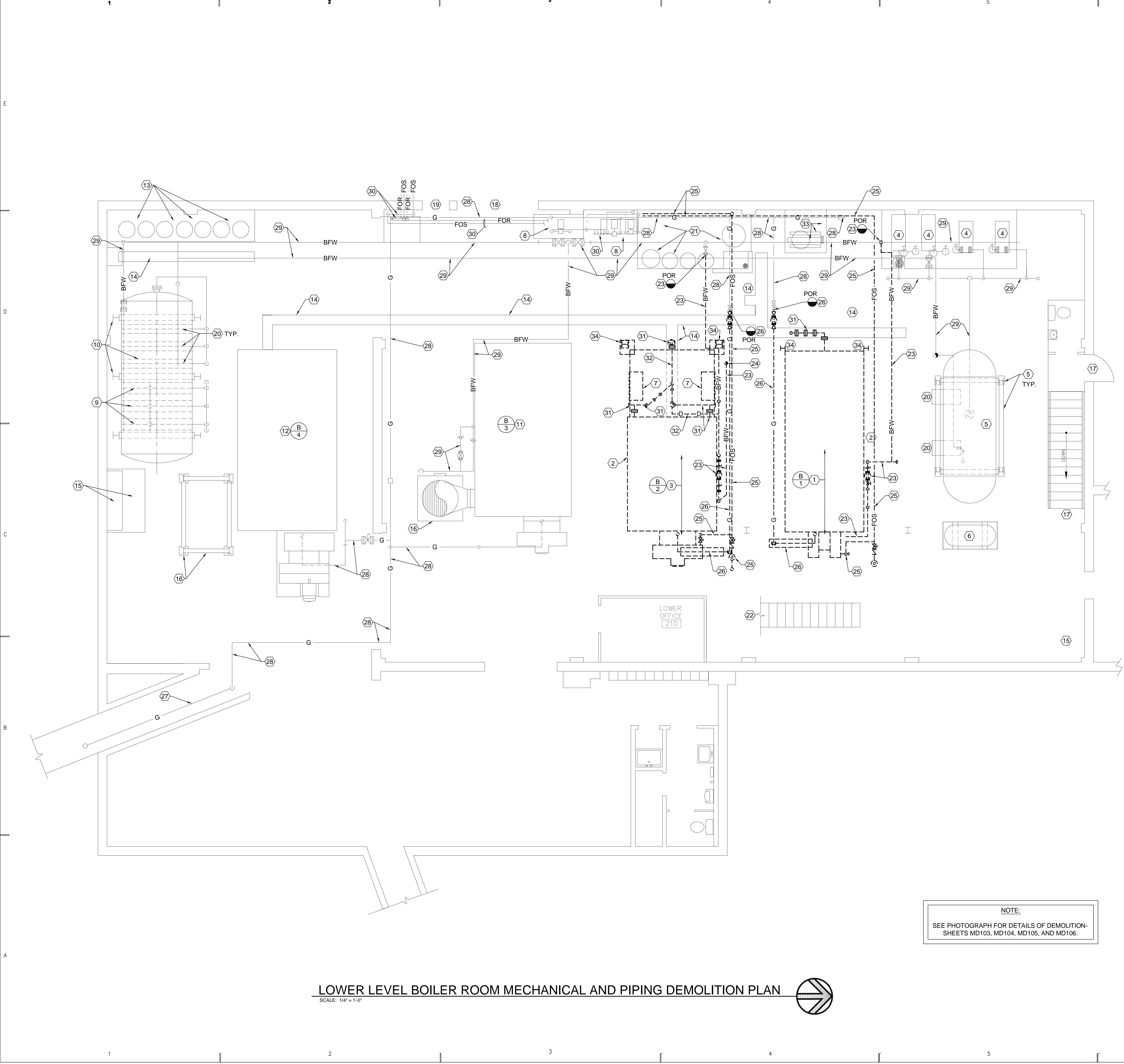
G-1 MECHANICAL INFORMATION FOR DEMOLITION IS NOT LIMITED TO THE MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR EXISTING CONDITIONS AND ANY OBSTRUCTIONS THAT COULD EFFECT THE DEMOLITIOIN SCOPE.

A - THE DEMOLITION CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE REMOVAL OF ALL ITEMS ACCORDING TO THE TRUE INTENT AND MEANING OF THE DOCUMENTS.

B - ANYTHING NOT CLEAR OR IN CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING.

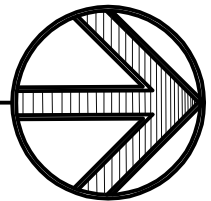
G-2 CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS. IF NECESSARY FOR DEMOLITION.

G-3 CONTRACTOR SHALL COORDINATE WITH WSU BEFORE DEMOLITION TO DETERMINE IF ANY REMOVED MATERIALS, EQUIPMENT ETC. SHALL REMAIN AS PROPERTY OF WSU. ALL OTHER MATERIALS, EQUIPMENT ETC. SHALL BE REMOVED FROM SITE AND DISPOSED OF IN AN APPROVED MANNER IN AN APPROVED DUMP SITE. ALL HAZARDOUS MATERIALS SHALL BE REMOVED AND DISPOSED PER CODE AND STANDARDS FOR HAZARDOUS MATERIALS.



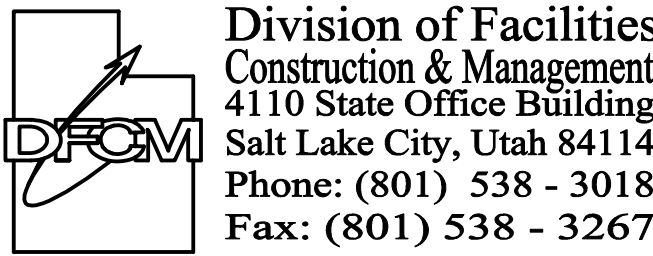
LOWER LEVEL BOILER ROOM MECHANICAL AND PIPING DEMOLITION PLAN

SCALE: 1/4" = 1'-0"



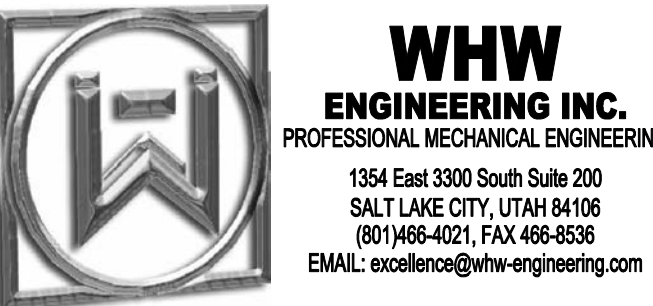
SHEET NOTES

- 1 REMOVE EXISTING BOILER #1 AND BURNER, ALL PIPING, CONTROLS, ELECTRICAL, SUPPORTS, STACK, FANS, DUCTWORK ETC. ASSOCIATED WITH BOILER #1.
- 2 REMOVE EXISTING CONCRETE BOILER PAD TO GROUND.
- 3 REMOVE EXISTING BOILER #2 AND BURNER, ALL PIPING, CONTROLS, ELECTRICAL, SUPPORTS, STACK, FANS, DUCTWORK ETC. ASSOCIATED WITH BOILER #2.
- 4 EXISTING BOILER FEED WATER PUMPS FOR SYSTEM #1 SHALL REMAIN.
- 5 EXISTING CONDENSATE TANK, DEAERATOR, STEEL SUPPORTS, PUMPS, PIPING ETC. FOR SYSTEM #1 SHALL REMAIN.
- 6 EXISTING AIR COMPRESSOR SHALL REMAIN.
- 7 REMOVE EXISTING CONCRETE PILLAR SUPPORTS UNDER BOILER #2. PILLARS ARE 3'-8" ABOVE FLOOR.
- 8 EXISTING OIL PUMPS AND FOUNDATIONS SHALL REMAIN.
- 9 EXISTING BOILER FEED WATER PUMPS FOR SYSTEM #2 SHALL REMAIN.
- 10 EXISTING CONDENSATE TANK, DEAERATOR, STEEL SUPPORTS, PUMPS, PIPING ETC. FOR SYSTEM #2 SHALL REMAIN.
- 11 EXISTING BOILER #3 SHALL REMAIN.
- 12 EXISTING BOILER #4 SHALL REMAIN.
- 13 EXISTING CHEMICAL TANKS AND PAD SHALL REMAIN.
- 14 EXISTING COVERED TRENCH DRAIN SHALL REMAIN.
- 15 ELECTRICAL AND PAD SHALL REMAIN.
- 16 EXISTING ECONOMIZER AND STRUCTURAL SUPPORTS SHALL REMAIN.
- 17 STAIRS FROM BOILER ROOM FLOOR TO UPPER LEVEL RESTROOM, EXIT DOOR TO GRADE AND ACCESS DOOR TO ROOF.
- 18 9'-0" WIDE ROLL-UP DOOR.
- 19 3'-0" MAN DOOR.
- 20 CONDENSATE PUMPS FOR SYSTEMS #1 AND #2 SHALL REMAIN.
- 21 EXISTING SOFTENER SYSTEM, TANKS PIPING ETC. SHALL REMAIN.
- 22 STAIRS FROM BOILER ROOM FLOOR TO UPPER LEVEL. SEE SHEET MD102 FOR CONTINUATION.
- 23 REMOVE EXISTING BOILER FEED WATER PIPING FROM BOILER CONNECTION TO POINT SHOWN. REMOVE SUPPORTS, HANGER, VALVES, CONTROL VALVES, UNIONS, INSULATION, CONTROL AIR PIPING ETC. VALVE SHALL REMAIN. INSTALL BLIND FLANGE.
- 24 SEE SHEET MD102 FOR CONTINUATION.
- 25 REMOVE EXISTING FUEL OIL SUPPLY (TOP) AND RETURN (UNDER SUPPLY) FROM BURNER CONNECTION BACK TO HEADER VALVES. CAP VALVES AT HEADERS. REMOVE ALL OTHER VALVES, UNIONS, RELIEF VALVES, BACK PRESSURE VALVES, HANGERS, SUPPORTS ETC.
- 26 REMOVE EXISTING GAS PIPING, GAS TRAIN, PRV VALVE, HANGERS, SUPPORTS ETC. TO PLUG VALVE. PLUG VALVE SHALL REMAIN AND BE CAPPED.
- 27 EXISTING GAS PIPING IN TUNNEL.
- 28 EXISTING GAS PIPING SHALL REMAIN.
- 29 EXISTING BOILER FEEDWATER PIPING SHALL REMAIN.
- 30 EXISTING FOS AND FOR PIPING SHALL REMAIN.
- 31 REMOVE EXISTING BLOWDOWN VALVES AND PIPING AND CAP IN DRAIN TRENCH.
- 32 REMOVE EXISTING DRAIN PIPING.
- 33 EXISTING CONDENSATE COOLER TANK, EXCHANGER, PIPING, SUPPORTS, PAD ETC. SHALL REMAIN.
- 34 COLUMNS SHALL BE REMOVED ONLY AFTER CATWALKS ARE NO LONGER REQUIRED FOR DEMOLITION.



Internet: <http://www.dfc.state.ut.us>

CONSULTANTS



PROJECT NAME & ADDRESS

**WEBER STATE
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PLANT - BOILER
REPLACEMENT**

DFCM No. 07049810

Ogden, Utah

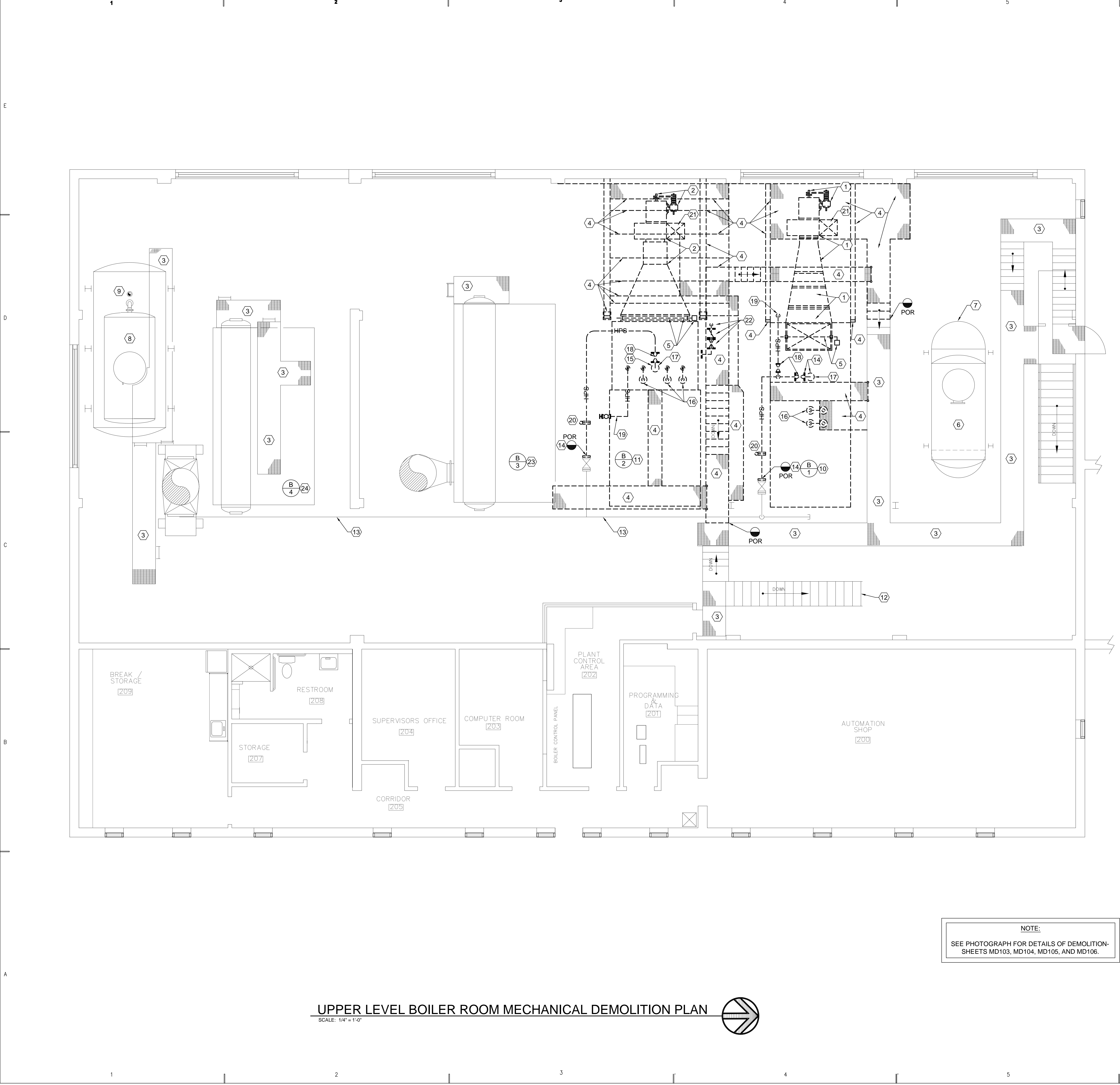
MARK	DATE	REVISION

PROJECT MANAGER: SLW	
DRAWN BY: LGD	
CHECKED BY: SLW/WP	
DATE: 11/9/07	
WHW JOB NO.: 07037	
SHEET TITLE	

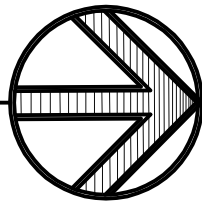
**LOWER LEVEL BOILER ROOM
MECHANICAL AND PIPING
DEMOLITION PLAN**

SHEET NO.

MD101



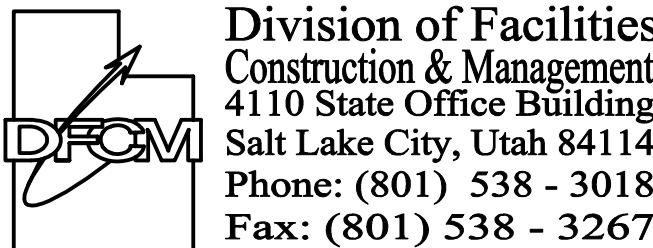
UPPER LEVEL BOILER ROOM MECHANICAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



SHEET NOTES

- 1 REMOVE EXISTING B-1 FAN, DUCT, AND STACK THRU ROOF. SEE PHOTO DETAIL A1 AND B1 SHEET MD106.
- 2 REMOVE EXISTING B-2 FAN, DUCT, AND STACK THRU ROOF. SEE PHOTO DETAIL B3 AND D3 SHEET MD106.
- 3 EXISTING CATWALK, HANDRAILS, AND STAIRS SHALL REMAIN.
- 4 EXISTING CATWALK, STEEL SUPPORTS, STAIRS, LADDERS, AND HANDRAILS SHALL REMAIN UNTIL NO LONGER REQUIRED BY DEMOLITION CREWS AND THEN BE REMOVED TO POINTS SHOWN.
- 5 REMOVE EXISTING STACK DAMPERS, LINKAGE, AND OPERATOR.
- 6 EXISTING DEAERATOR FOR SYSTEM #1 SHALL REMAIN.
- 7 EXISTING CONDENSATE RECEIVER TANK FOR SYSTEM #1 SHALL REMAIN.
- 8 EXISTING DEAERATOR FOR SYSTEM #2 SHALL REMAIN.
- 9 EXISTING CONDENSATE RECEIVER TANK FOR SYSTEM #2 SHALL REMAIN.
- 10 REMOVE BOILER #1 AND ALL ASSOCIATED PIPING, BURNER, CONTROLS, ELECTRICAL, ETC.
- 11 REMOVE BOILER #2 AND ALL ASSOCIATED PIPING, BURNER, CONTROLS, ELECTRICAL, ETC.
- 12 EXISTING STAIRS FROM BOILER ROOM FLOOR TO CONTROL ROOM.
- 13 EXISTING STEAM HEADER SHALL REMAIN.
- 14 REMOVE EXISTING STEAM SUPPLY FROM BOILER #1 INCLUDING ANGLE VALVE, GATE VALVE, ORIFICE AND RECORDER, UP TO VALVE INLET. PROVIDE BLIND FLANGE AT VALVE INLET.
- 15 REMOVE EXISTING STEAM SUPPLY FROM BOILER #2 INCLUDING ANGLE VALVE, GATE VALVE, ORIFICE AND RECORDER, UP TO VALVE INLET. PROVIDE BLIND FLANGE AT VALVE INLET.
- 16 REMOVE EXISTING RELIEF VALVES, DRAIN ELL, AND PIPING THRU ROOF. PATCH ROOF.
- 17 ANGLE SHUT-OFF VALVE.
- 18 GATE VALVE.
- 19 REMOVE STEAM PIPING, VALVES ETC. SERVING SOOT BLOWERS.
- 20 ORIFICE, FLANGES, AND RECORDER
- 21 REMOVE EXISTING STACK THRU-ROOF. PATCH ROOF.
- 22 BFW FROM BELOW. REMOVE PIPING, CHECK VALVE, GATE VALVE AND DRUM CONNECTION.
- 23 EXISTING BOILER #3 SHALL REMAIN.
- 24 EXISTING BOILER #4 SHALL REMAIN.

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PLANT - BOILER
REPLACEMENT**

DFCM No. 07049810

Ogden, Utah

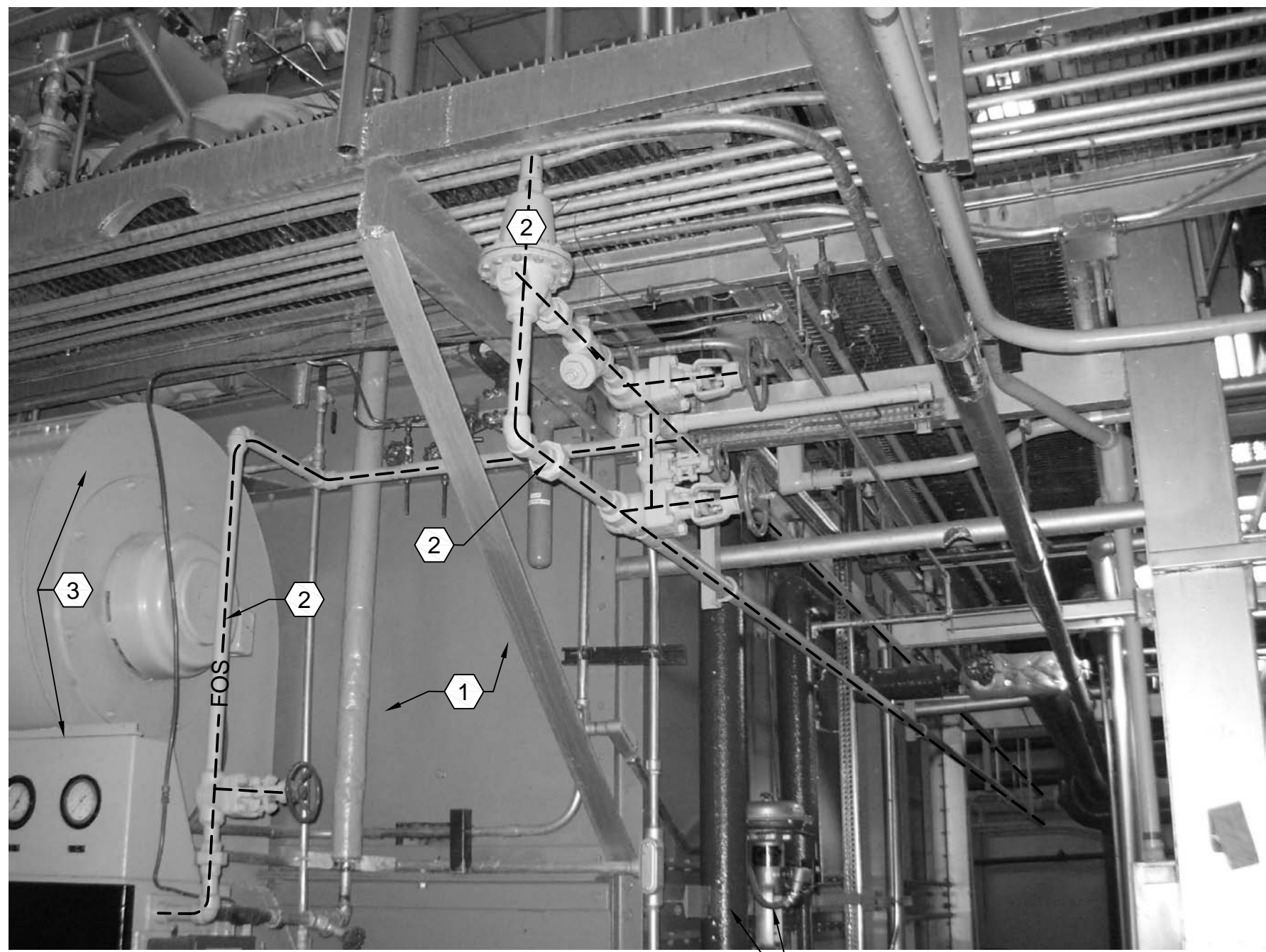
MARK	DATE	REVISION

PROJECT MANAGER: SLW	
DRAWN BY: LGD	
CHECKED BY: SLW/WP	
DATE: 11/9/07	
WHW JOB NO.: 07037	SHEET TITLE

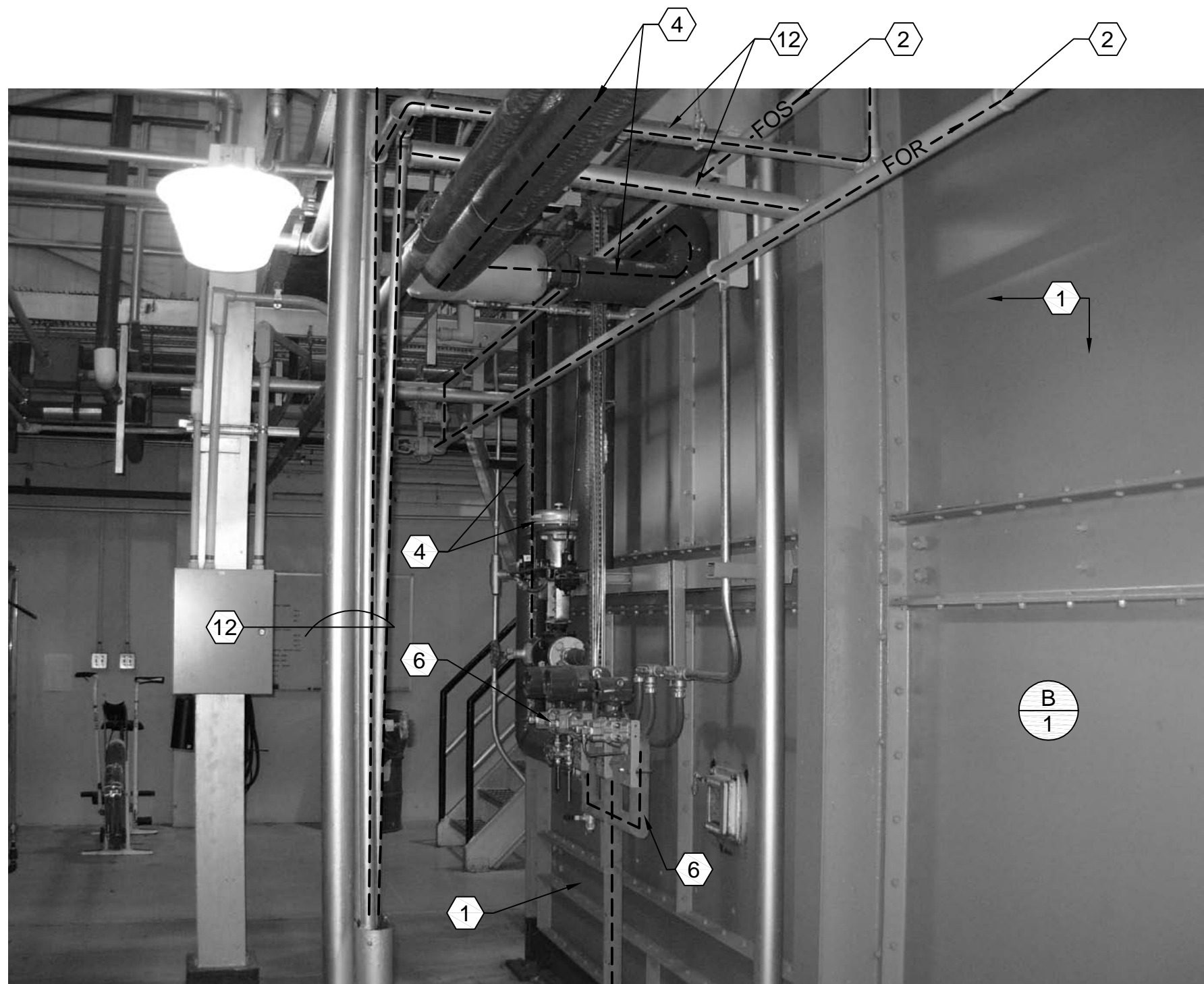
**UPPER LEVEL BOILER ROOM
MECHANICAL DEMOLITION
PLAN**

SHEET NO.

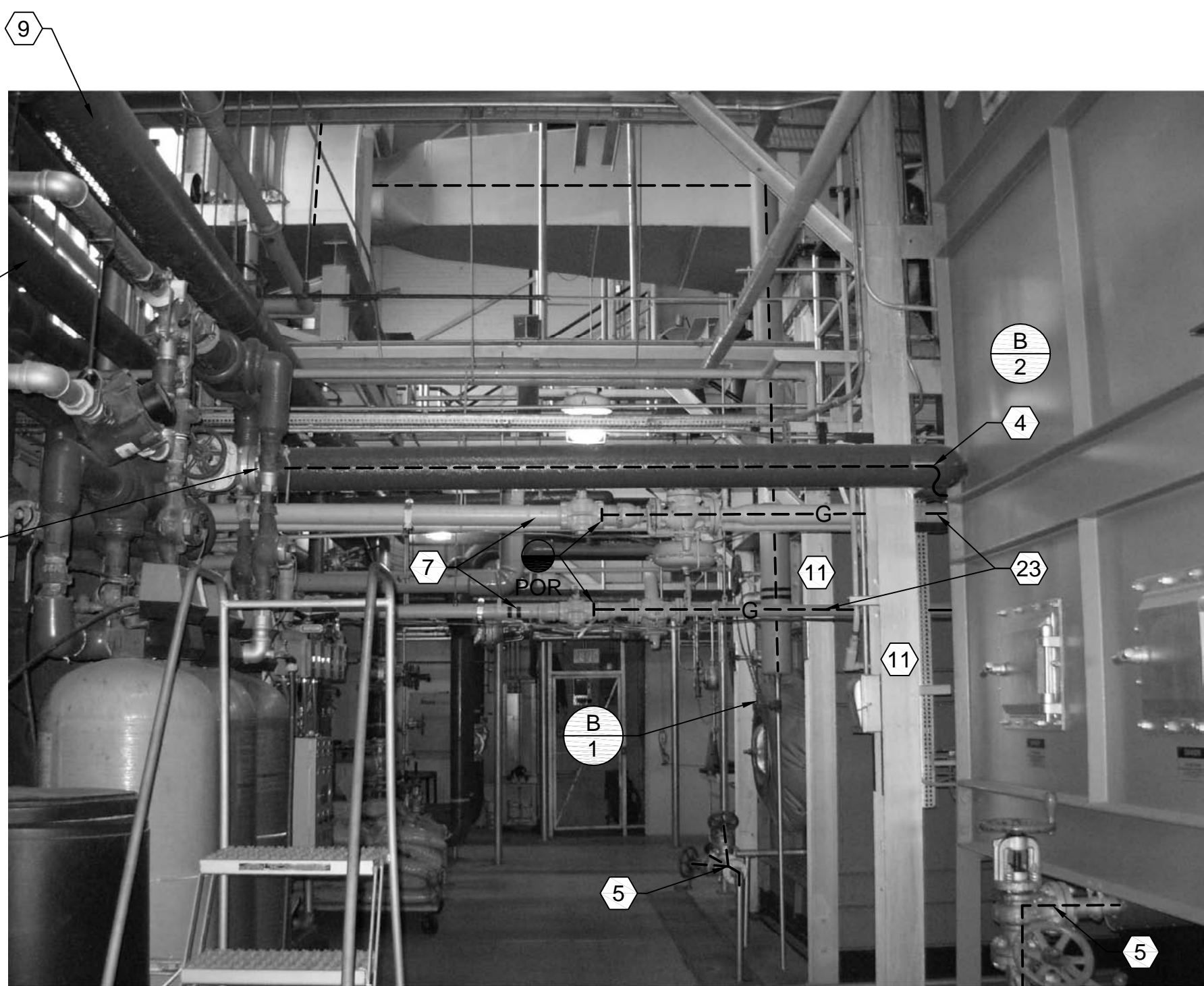
MD102



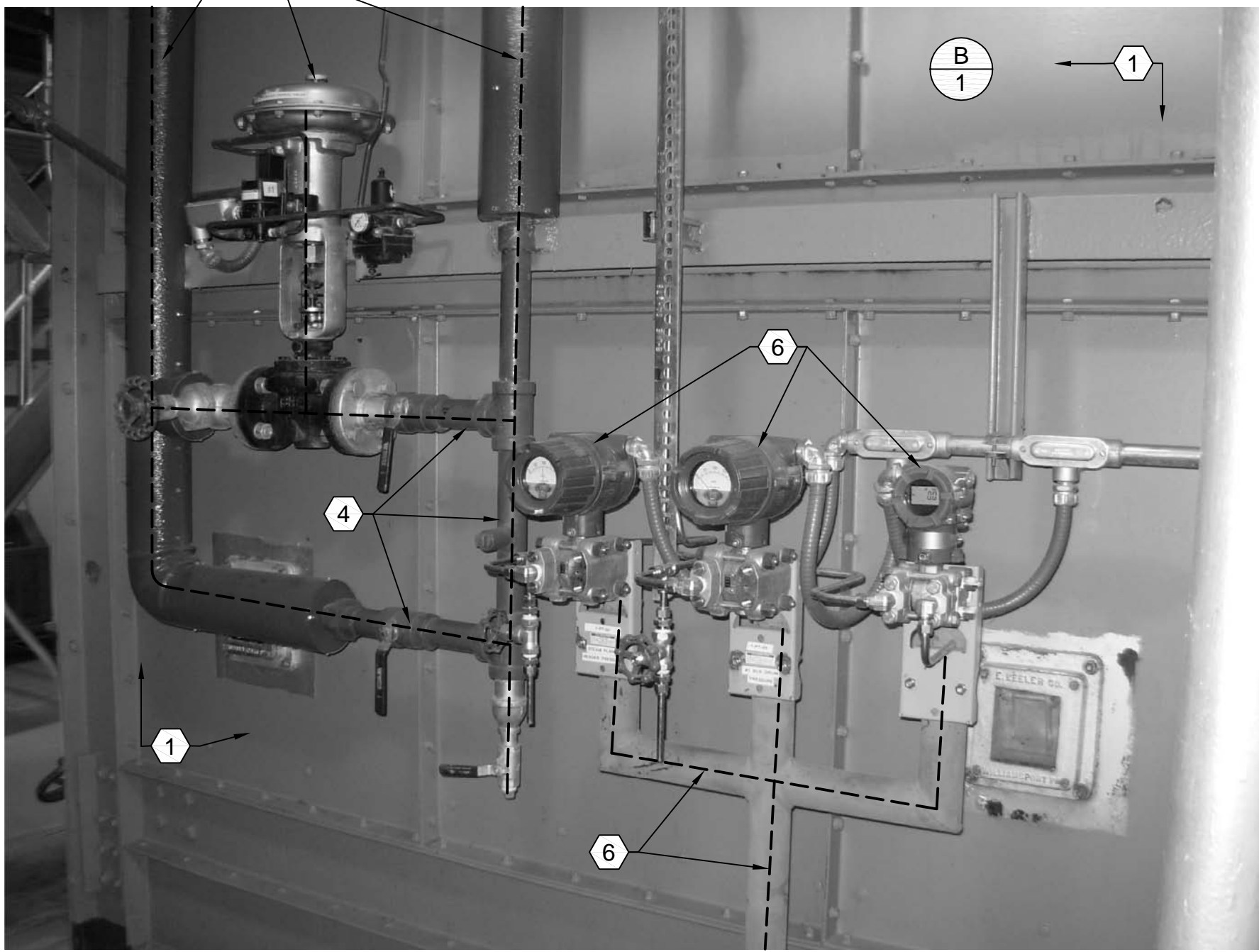
D1 BOILER #1 LOOKING SOUTHWEST
SCALE: NONE



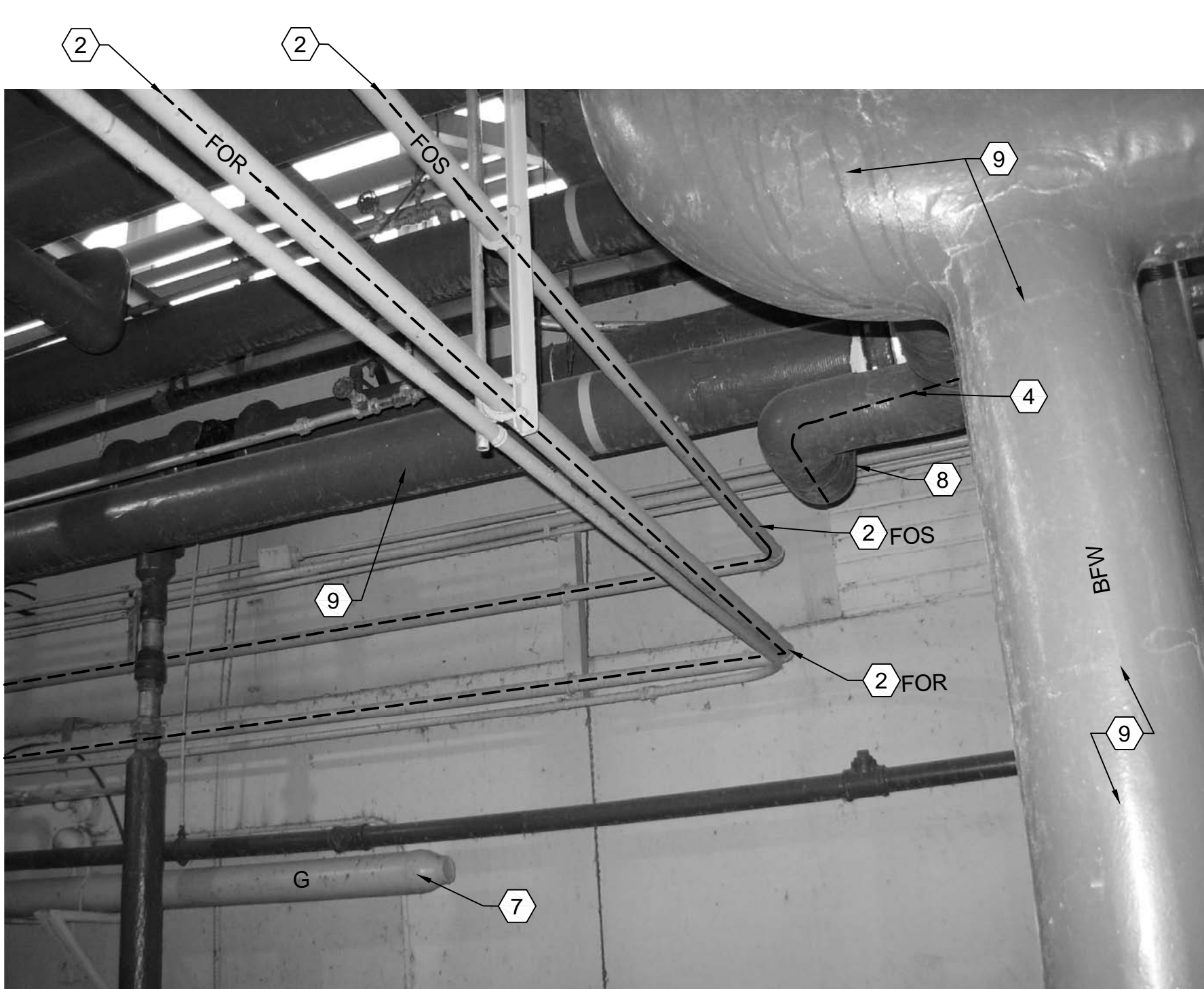
B1 BOILER #1 LOOKING SOUTHEAST
SCALE: NONE



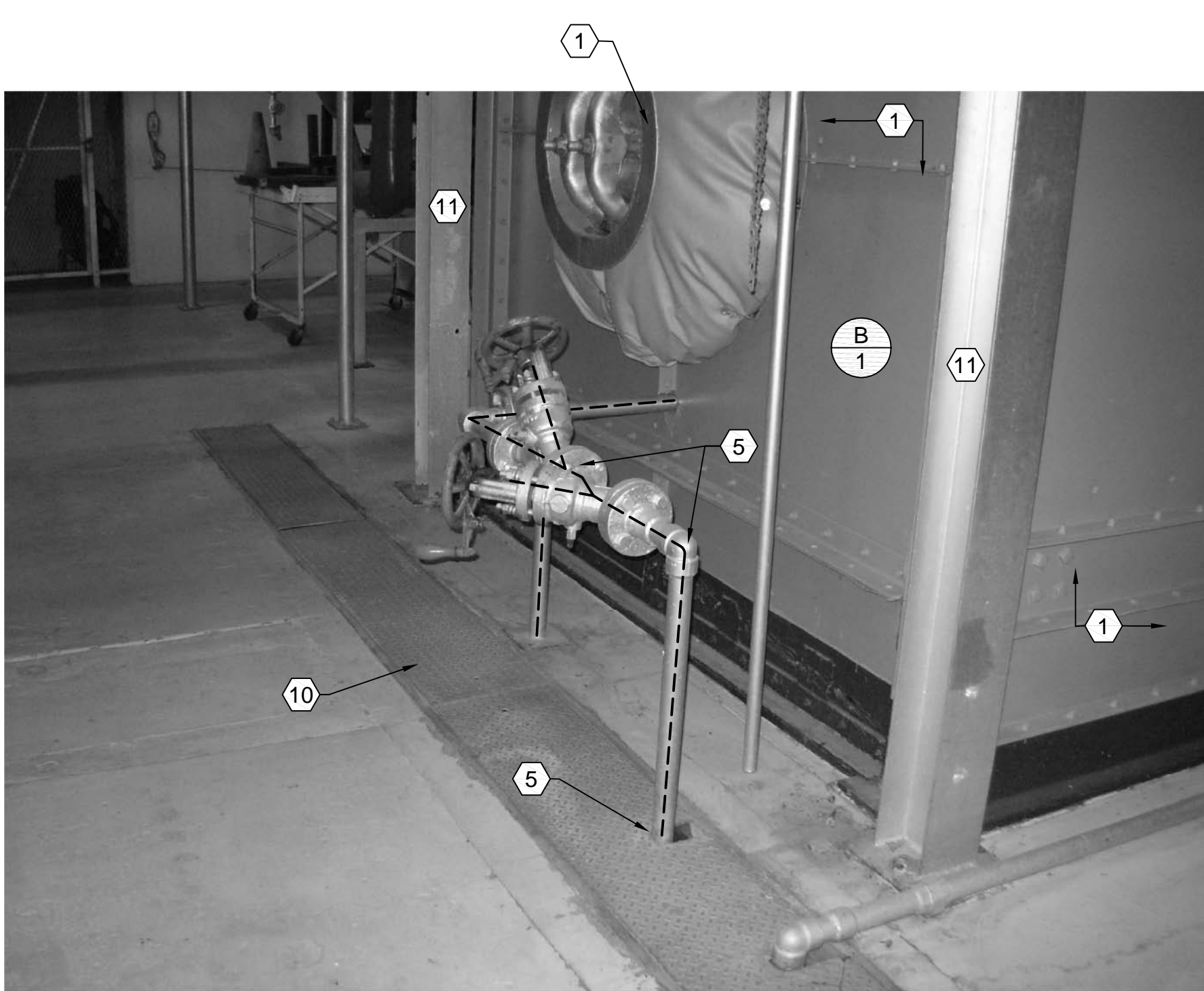
A1 BOILER #1 PIPING LOOKING NORTH
SCALE: NONE



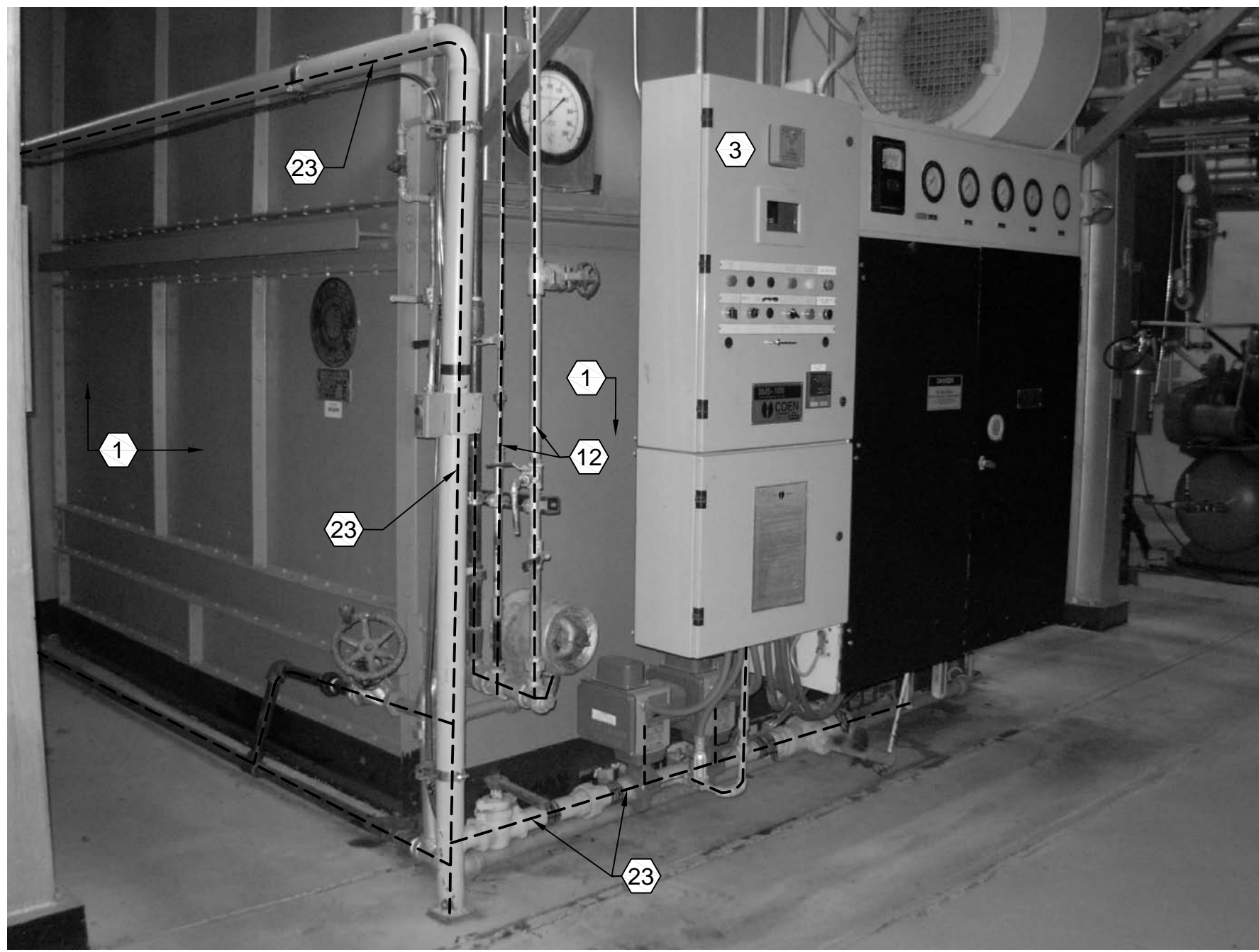
D3 BOILER #1 FEEDWATER AND RECORDERS LOOKING SOUTHEAST
SCALE: NONE



B3 BOILER #1 FUEL OIL SUPPLY AND RETURN LOOKING WEST
SCALE: NONE



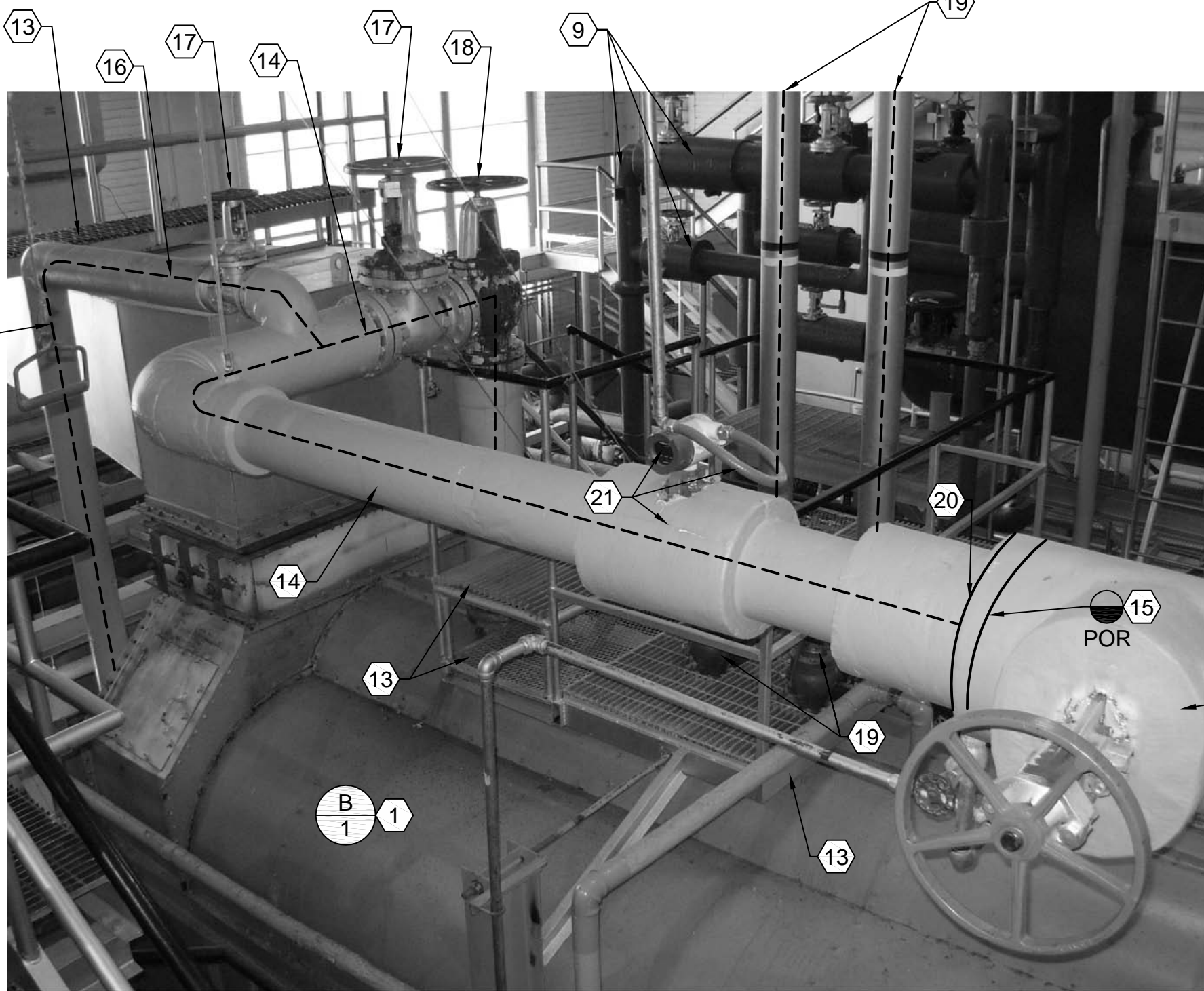
A3 BOILER #1 LOOKING NORTHEAST
SCALE: NONE



D4 BOILER #1 GAS AND BURNER LOOKING NORTHWEST
SCALE: NONE



B4 BOILER FEEDWATER AND OIL PIPING LOOKING NORTHWEST
SCALE: NONE



A4 BOILER #1 STEAM PIPING LOOKING NORTHWEST
SCALE: NONE

- SHEET NOTES:
- 1 REMOVE EXISTING BOILER #1 AND BOILER FOUNDATION.
 - 2 REMOVE EXISTING OIL SUPPLY AND RETURN PIPING C/W BACK PRESSURE VALVE, STRAINERS, VALVES, SUPPORTS ETC.
 - 3 REMOVE EXISTING BOILER BURNER, CONTROLS ETC.
 - 4 REMOVE EXISTING BOILER FEED WATER PIPING INCLUDING PNEUMATIC CONTROL VALVE, VALVES, SUPPORTS, PNEUMATIC PIPING, ETC.
 - 5 REMOVE EXISTING BLOWDOWN PIPING VALES ETC. CAP IN TRENCH UNDER COVER.
 - 6 REMOVE EXISTING STEAM HEADER PRESSURE, FEED WATER PRESSURE AND BOILER DRUM PRESSURE RECORDERS INCLUDING SUPPORT.
 - 7 EXISTING GAS PIPING SHALL REMAIN.
 - 8 REMOVE BOILER FEEDWATER TO THIS LOCATION AND CAP AT HEADER.
 - 9 EXISTING BOILER FEEDWATER PIPING SHALL REMAIN.
 - 10 UNDERFLOOR TRENCH AND COVER SHALL REMAIN.
 - 11 COLUMNS SHALL BE REMOVED ONLY AFTER CATWALKS ARE NO LONGER REQUIRED FOR DEMOLITION.
 - 12 REMOVE EXISTING DRAINS FROM BOILER #1 ONLY.
 - 13 REMOVE EXISTING CATWALK ONLY AFTER THEY ARE NO LONGER REQUIRED FOR DEMOLITION.
 - 14 REMOVE EXISTING STEAM SUPPLY PIPING FROM BOILER #1.
 - 15 REMOVE STEAM PIPING TO VALVE INLET. PROVIDE BLIND FLANGE ON EXISTING VALVE.
 - 16 REMOVE EXISTING STEAM SUPPLY TO SOOT BLOWER.
 - 17 REMOVE EXISTING STEAM GATE VALVE.
 - 18 REMOVE EXISTING STEAM ANGLE VALVE.
 - 19 REMOVE EXISTING RELIEF VALVES, PIPING, AND DRAIN ELLS. PATCH ROOF.
 - 20 PROVIDE NEW BLIND FLANGE.
 - 21 REMOVE EXISTING ORIFICE, FLANGES AND RECORDER, WIRING ETC.
 - 22 EXISTING GATE VALVE SHALL REMAIN.
 - 23 REMOVE EXISTING GAS PIPING, GAS TRAIN, SUPPORTS, HANGERS, ETC. TO PLUG VALVE. PROVIDE CAP.
 - 24 REMOVE BFW TO VALVE. VALVE SHALL REMAIN. PROVIDE BLIND FLANGE ON EXISTING VALVE.

CONSULTANTS



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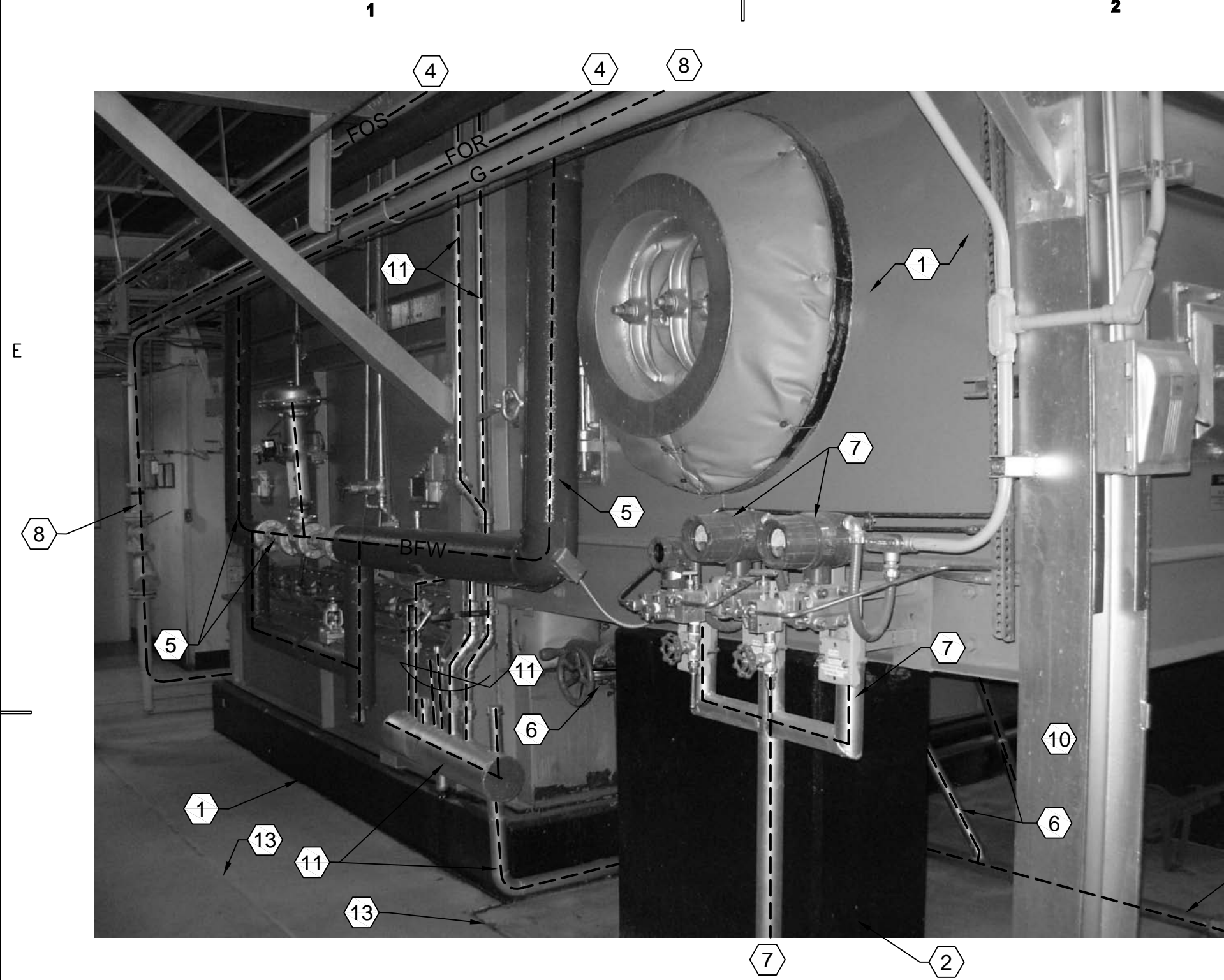
Ogden, Utah

MARK	DATE	REVISION

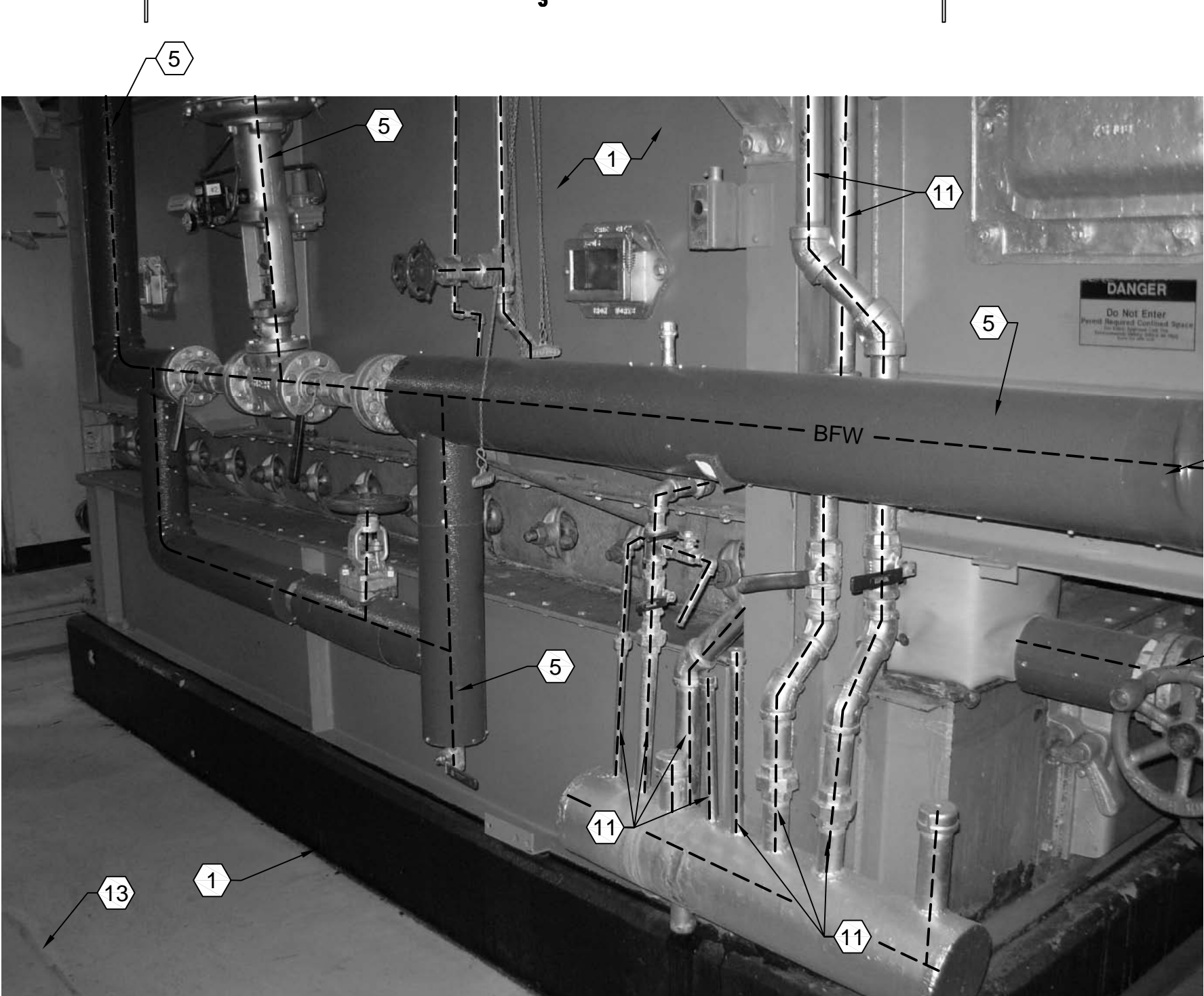
PROJECT MANAGER: SLW	
DRAWN BY: LGD	
CHECKED BY: SLW/WP	
DATE: 11/9/07	
WHW JOB NO.: 07037	

SHEET TITLE
**BOILER #1 DEMOLITION
PHOTOGRAPHS**

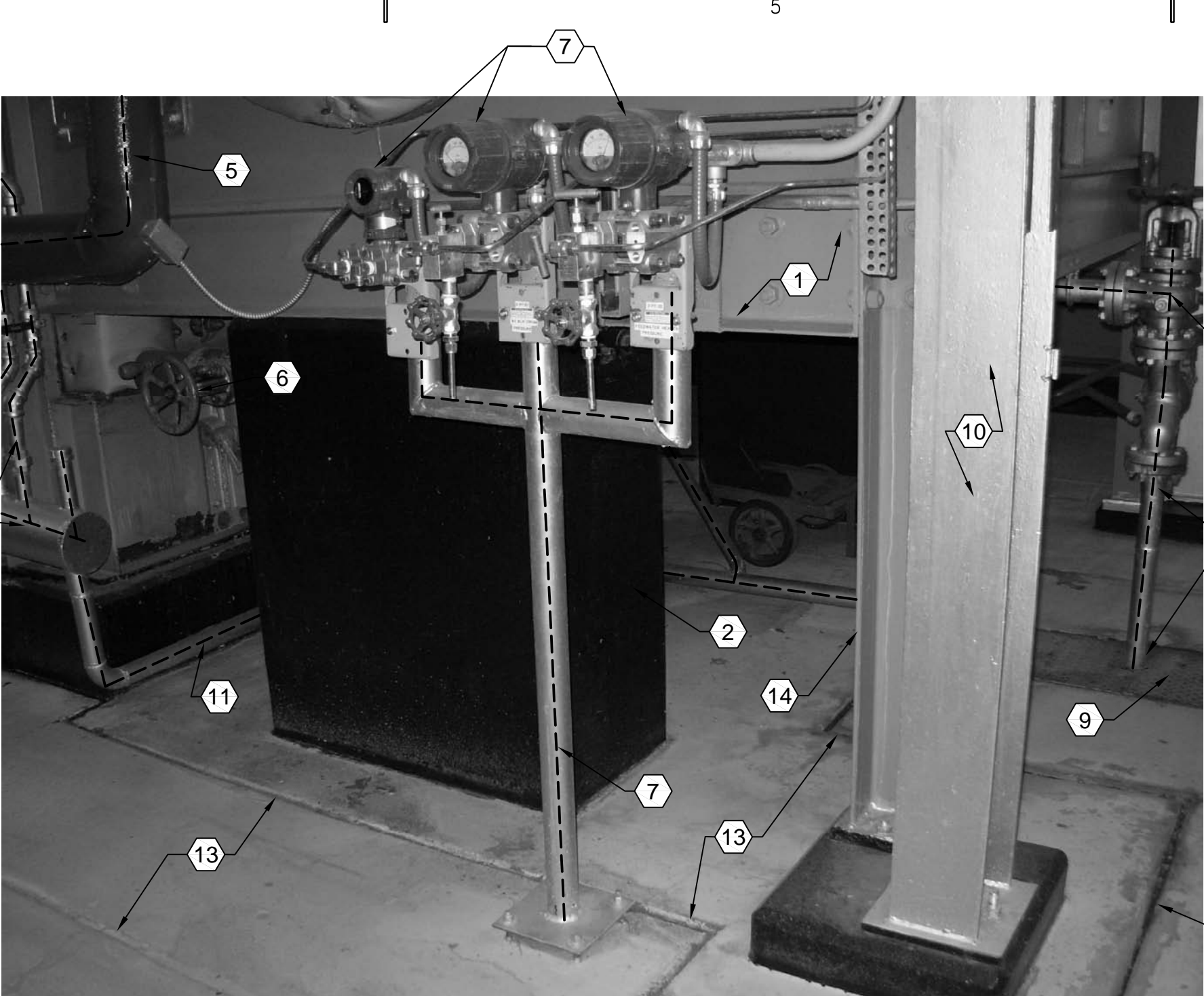
SHEET NO.
MD103



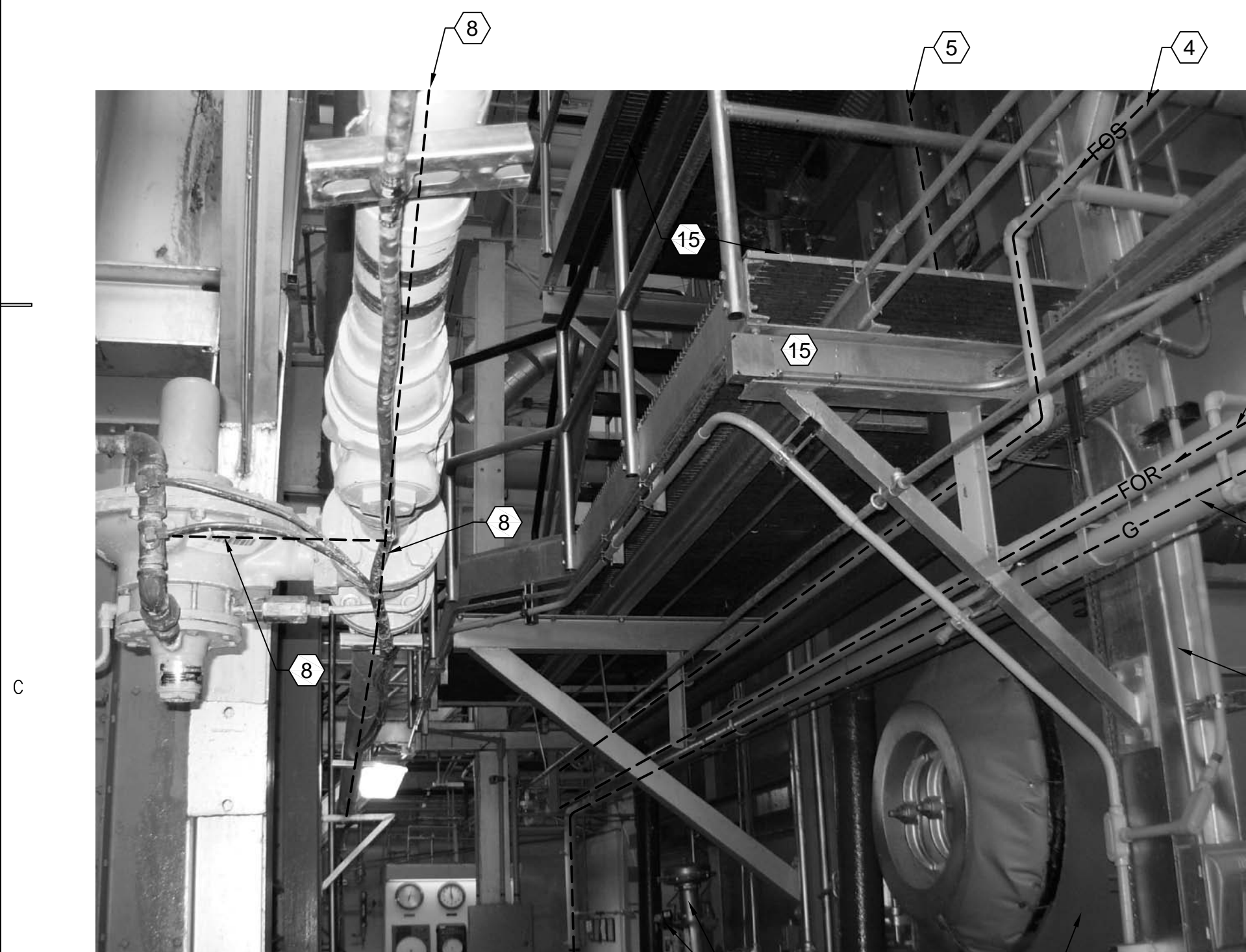
D1 BOILER #2 LOOKING SOUTHEAST
SCALE: NONE



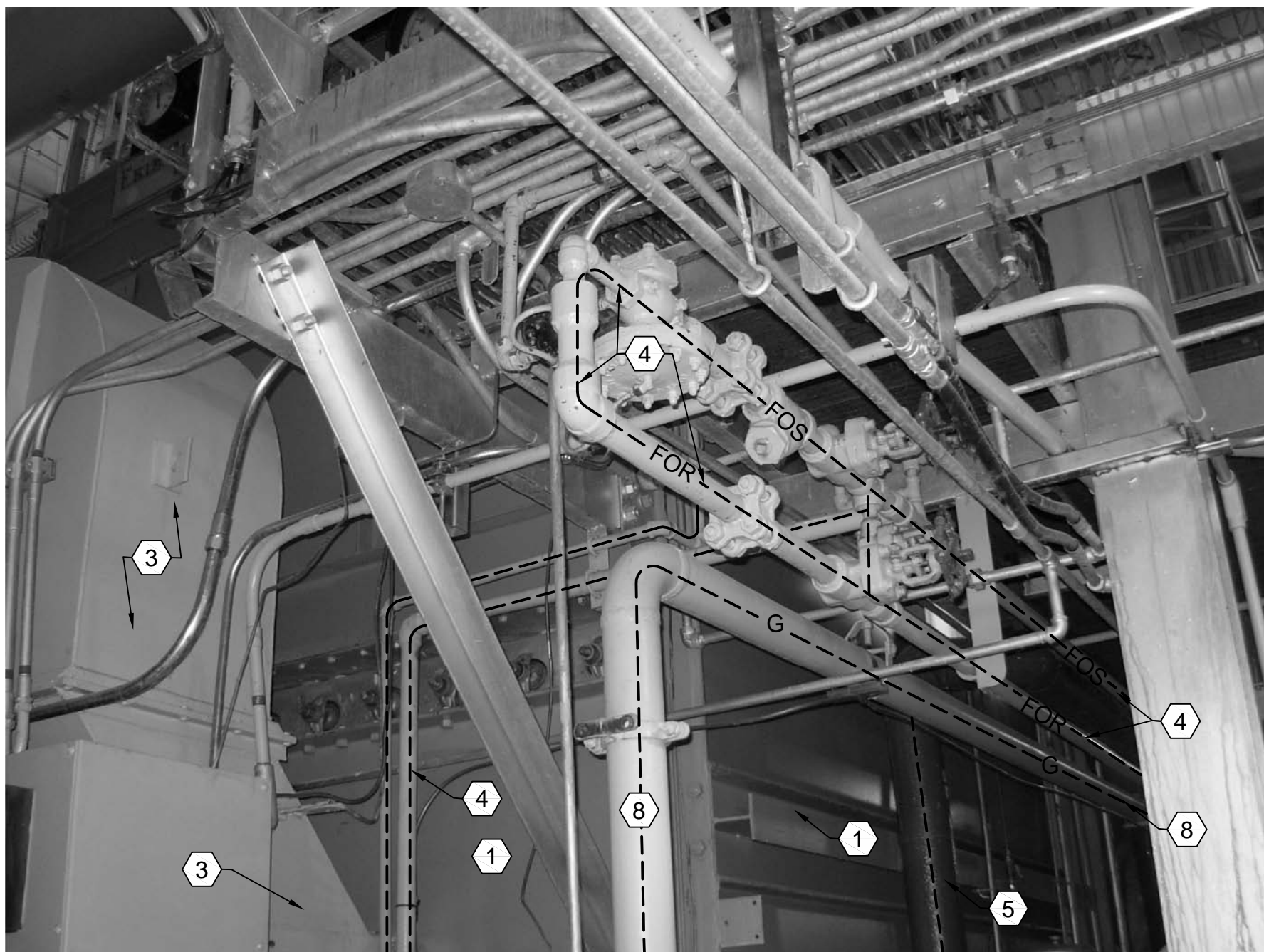
D3 BOILER #2 LOOKING SOUTHEAST
SCALE: NONE



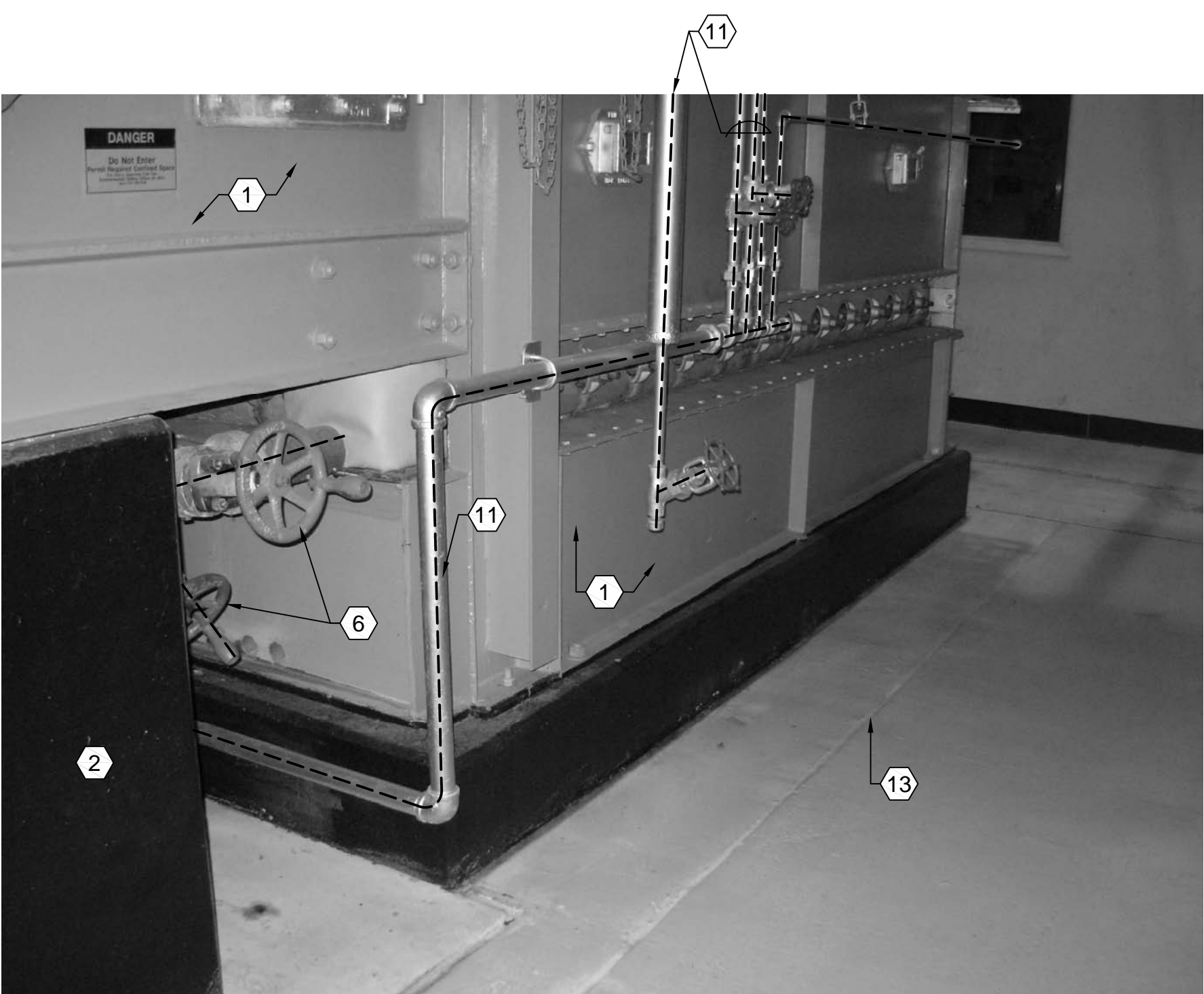
D4 BOILER #2 LOOKING SOUTHEAST
SCALE: NONE



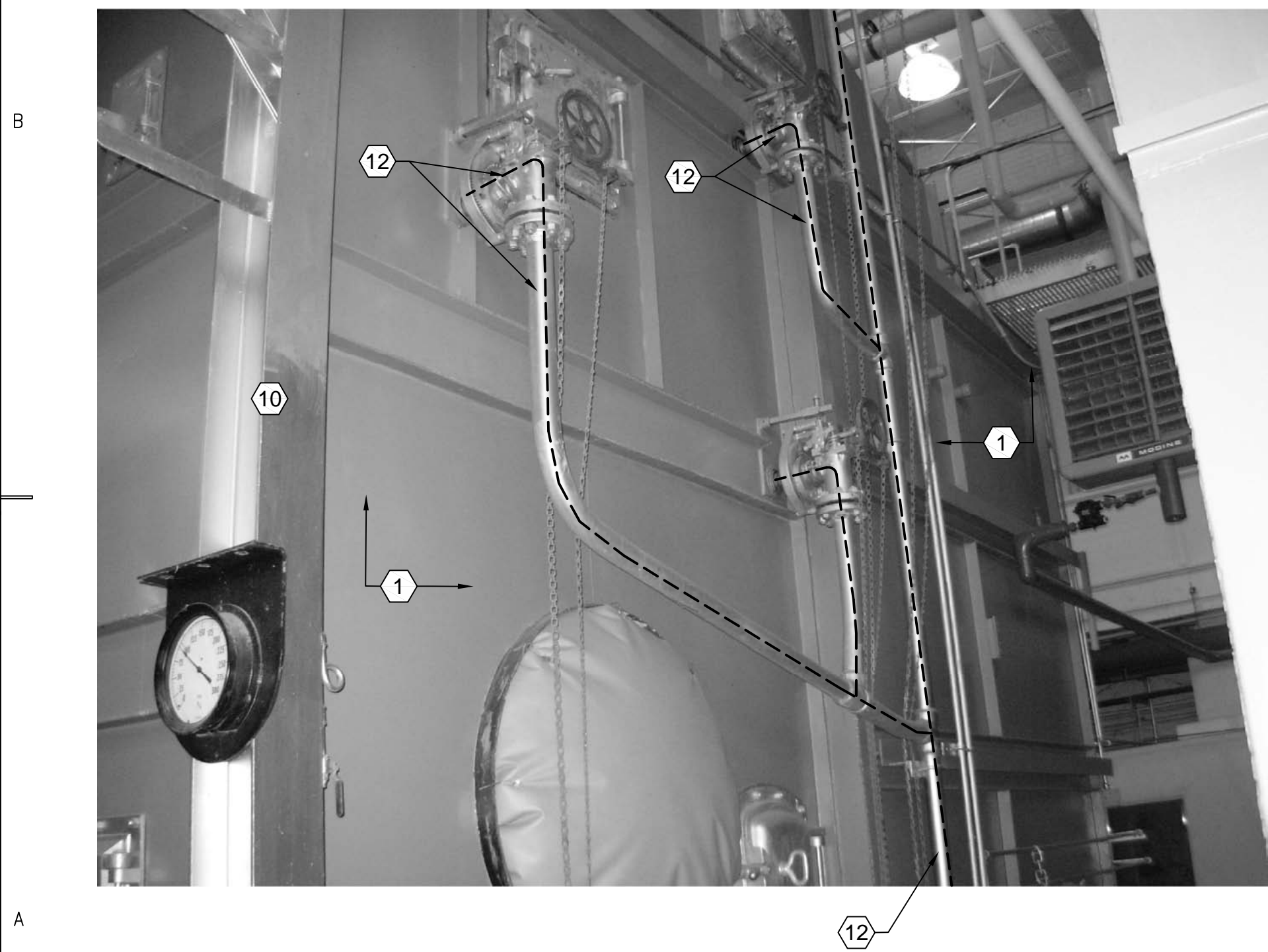
B1 BOILER #2 LOOKING NORTH
SCALE: NONE



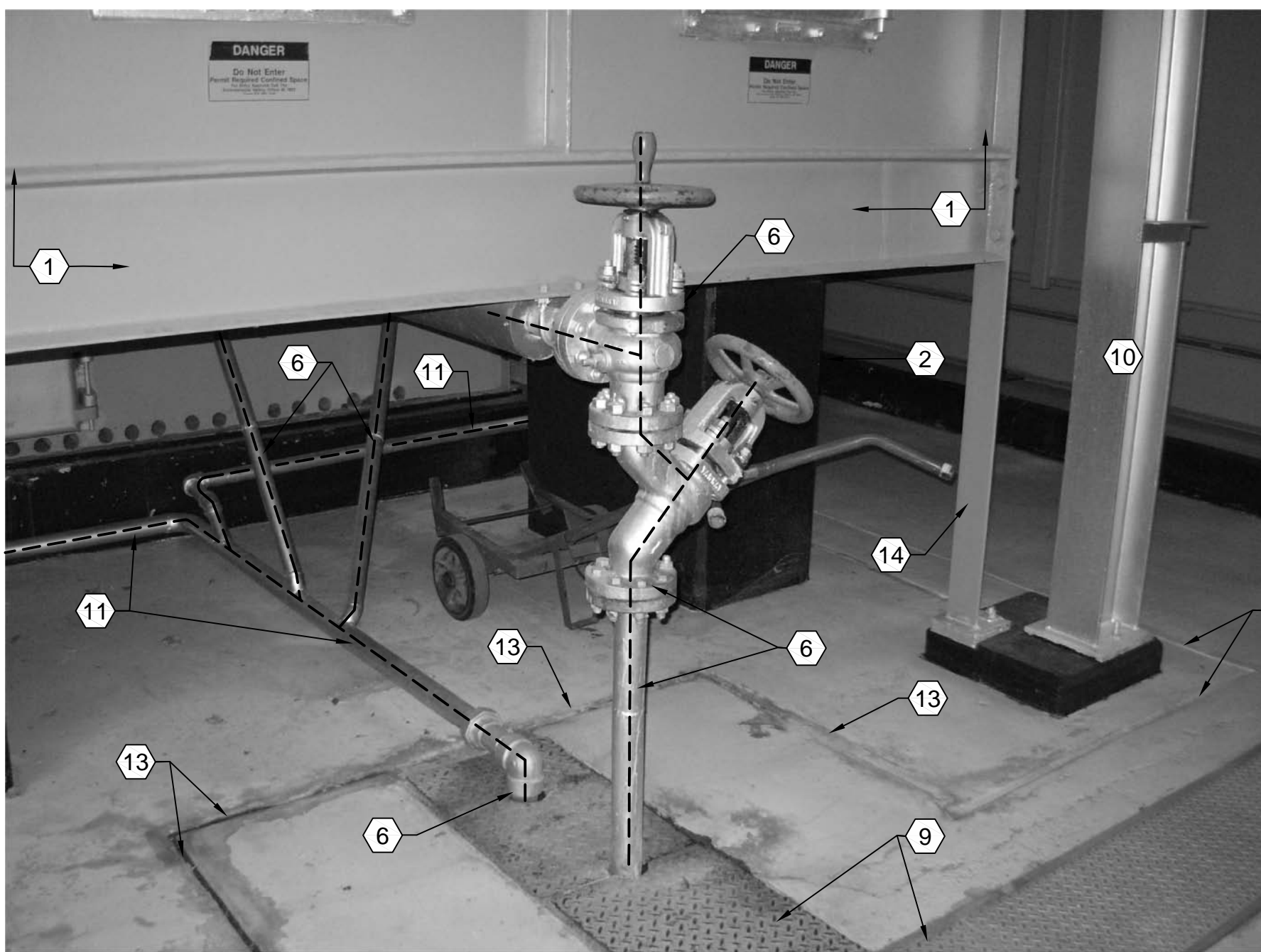
B3 BOILER #2 LOOKING SOUTHWEST
SCALE: NONE



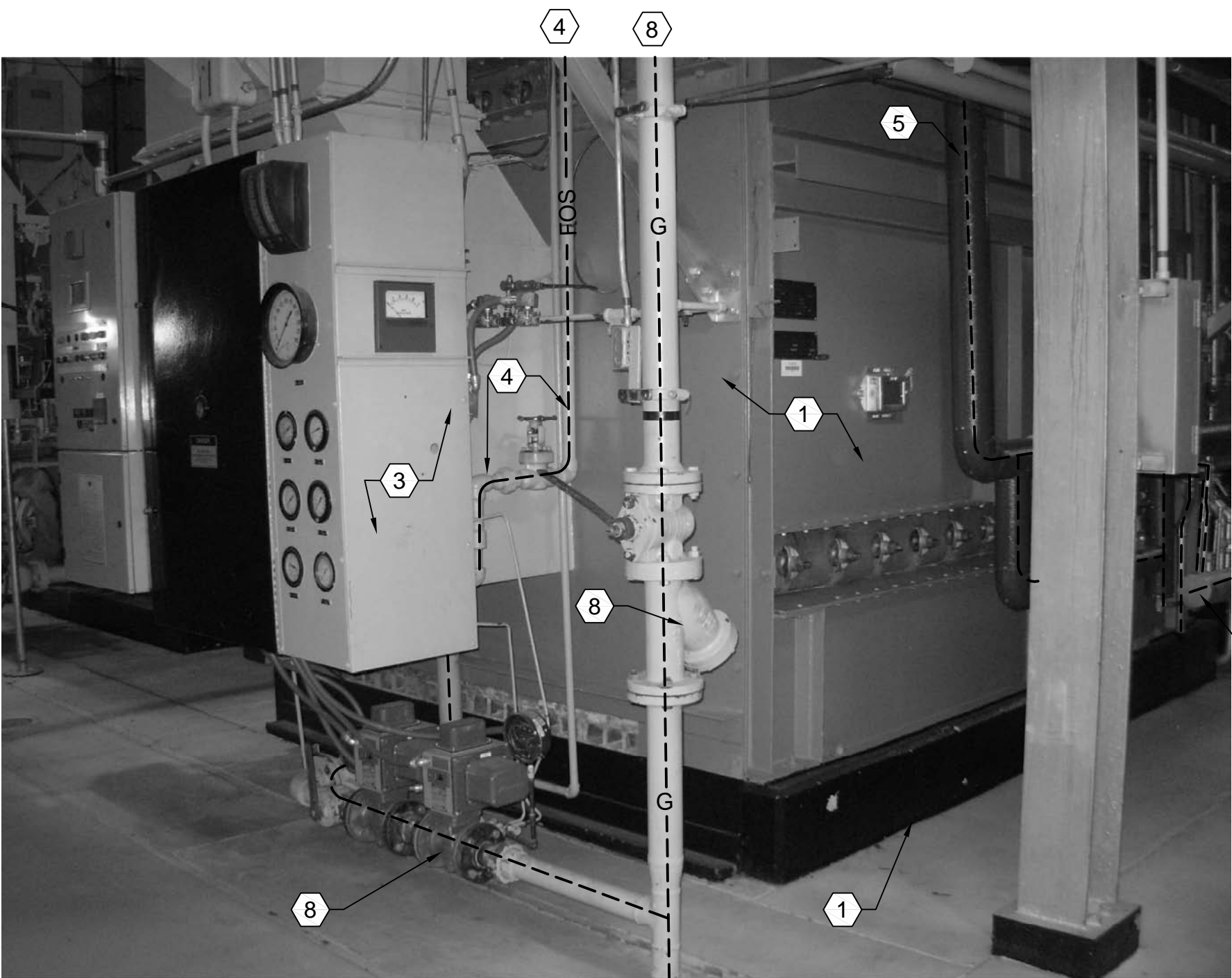
B4 BOILER #2 DRAINS & BLOWDOWN LOOKING NORTHEAST
SCALE: NONE



A1 BOILER #2 LOOKING NORTHEAST
SCALE: NONE

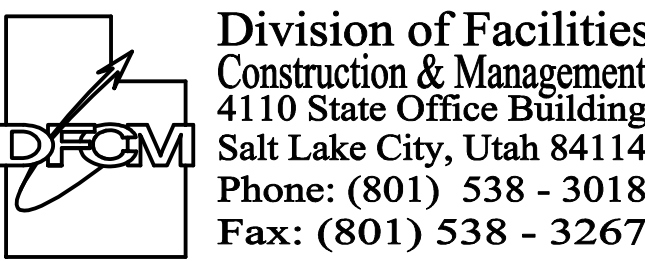


A3 BOILER #2 BLOWDOWN LOOKING SOUTHEAST
SCALE: NONE



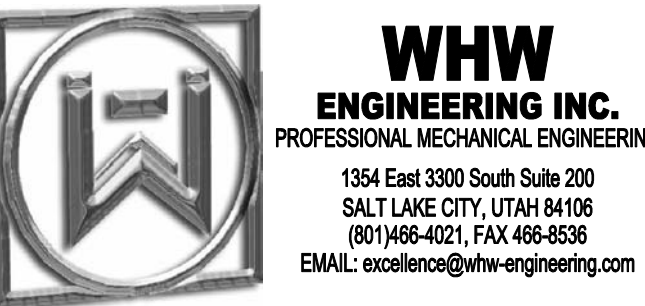
A4 BOILER #2 GAS AND BURNER LOOKING SOUTHWEST
SCALE: NONE

- SHEET NOTES:
- ① REMOVE EXISTING BOILER #2 BURNER AND BOILER FOUNDATION.
 - ② REMOVE SUPPORT COLUMNS BOTH SIDES OF BOILER.
 - ③ REMOVE EXISTING BOILER BURNER, CONTROLS ETC.
 - ④ REMOVE EXISTING OIL SUPPLY AND RETURN PIPING C/W BACK PRESSURE VALVE, STRAINERS, VALVES, SUPPORTS ETC.
 - ⑤ REMOVE EXISTING BOILER FEEDWATER PIPING INCLUDING PNEUMATIC CONTROL VALVE, VALVES, SUPPORTS, HANGERS, PNEUMATIC PIPING, ETC.
 - ⑥ REMOVE EXISTING BLOWDOWN PIPING, VALVES ETC. CAP IN TRENCH UNDER COVER.
 - ⑦ REMOVE EXISTING BOILER #2 DRUM PRESSURE, STEAM HEADER PRESSURE AND FEEDWATER HEADER PRESSURE RECORDERS INCLUDING SUPPORT.
 - ⑧ REMOVE EXISTING GAS PIPING, GAS TRAIN, VALVES, SUPPORTS ETC.
 - ⑨ UNDER FLOOR TRENCH AND COVER SHALL REMAIN.
 - ⑩ COLUMNS SHALL BE REMOVED ONLY AFTER CATWALKS ARE NO LONGER REQUIRED FOR DEMOLITION.
 - ⑪ REMOVE EXISTING DRAINS FROM BOILER #2.
 - ⑫ REMOVE EXISTING SOOT BLOWERS AND ALL ASSOCIATED PIPING VALVES ETC.
 - ⑬ FOUNDATION CUT LINES.
 - ⑭ REMOVE ANGLE SUPPORTS FOR BOILER.
 - ⑮ REMOVE EXISTING CATWALK AND STRUCTURE ONLY AFTER IT IS NOT REQUIRED BY DEMOLITION CREWS.



Internet: <http://www.dfcu.state.ut.us>

CONSULTANTS



PROJECT NAME & ADDRESS

**WEBER STATE
UNIVERSITY HEATING
PLANT - BOILER
REPLACEMENT**

DFCM No. 07049810

Ogden, Utah

MARK	DATE	REVISION

PROJECT MANAGER: SLW	
DRAWN BY: LGD	
CHECKED BY: SLW/WP	
DATE: 11/9/07	
WHW JOB NO.: 07037	

SHEET TITLE
**BOILER #2 DEMOLITION
PHOTOGRAPHS**

SHEET NO.
MD104



(D1



(D3)



(D4



(B3)



(B4)



(A4)

- ① REMOVE EXISTING STEAM SUPPLY LINE INCLUDING ANGLE VALVE, GATE VALVE AND FLOW ORIFICE UP TO EXISTING GATE VALVE AT STEAM HEADER. PROVIDE BLIND FLANGE ON BOILER SIDE OF VALVE.
- ② REMOVE EXISTING SOOT BLOWER STEAM SUPPLY PIPING VALVES ETC.
- ③ REMOVE EXISTING RELIEF VALVES, RELIEF PIPING THROUGH ROOF AND DRAIN ELL. PATCH ROOF.
- ④ REMOVE UPPER LEVEL BOILER FEEDWATER PIPING, GATE VALES, CHECK VALVES, HANGERS ETC.
- ⑤ REMOVE EXISTING CATWALK ONLY AFTER DEMOLITION CREW NO LONGER REQUIRES CATWALK FOR ACCESS.
- ⑥ REMOVE EXISTING BOILER #2 AND ALL RELATED PIPING, STACKS, ELECTRICAL, CONTROLS, FOUNDATION ETC.
- ⑦ REMOVE EXISTING STAIRS AND RAILINGS ONLY AFTER DEMOLITION CREW NO LONGER REQUIRES THEM FOR ACCESS.
- ⑧ REMOVE EXISTING DAMPER OPERATOR AND LINKAGE.
- ⑨ REMOVE BOILER STACK THRU ROOF. PATCH ROOF.
- ⑩ REMOVE ALL DRAIN AND VENT PIPING.
- ⑪ REMOVE EXISTING STEAM PIPING VALVES ETC.
- ⑫ ANGLE VALVE.
- ⑬ GATE VALVE.
- ⑭ REMOVE EXISTING STEAM DRAIN LINE, VALVE, SUPPORTS, HANGERS ETC.
- ⑮ EXISTING STEAM SUPPLY FROM BOILER #3 SHALL REMAIN.
- ⑯ EXISTING GATE VALVE SHALL REMAIN.
- ⑰ PROVIDE BLIND FLANGE ON EXISTING VALVE.
- ⑱ EXISTING OIL PUMPS AND PIPING SHALL REMAIN EXCEPT FOR THAT SHOWN.
- ⑲ REMOVE EXISTING FOS TO BOILER #1 FROM VALVE TO BOILER. CAP VALVE.
- ⑳ REMOVE EXISTING FOS TO BOILER #2 FROM VALVE TO BOILER. CAP VALVE.
- ㉑ REMOVE EXISTING FOR FROM BOILER #1 TO VALVE. CAP VALVE.
- ㉒ REMOVE EXISTING FOR FROM BOILER #2 TO VALVE. CAP VALVE.
- ㉓ REMOVE EXISTING GAS LINE FROM BOILER TO VALVE ENTRANCE C/W ALL VALVES AND GAS TRAIL.
- ㉔ EXISTING GAS PIPING INCLUDING VALVE SHALL REMAIN.

Internet: <http://www.dfcm.state.ut.us>

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PROJECT MANAGER:	
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SLW

DRAWN BY:

LGD

CHECKED BY:
CLM/MD

SLV/VVP
DATE:

DATE: 11/9/07

WHY JOB NO.:

07037

SHEET TITLE

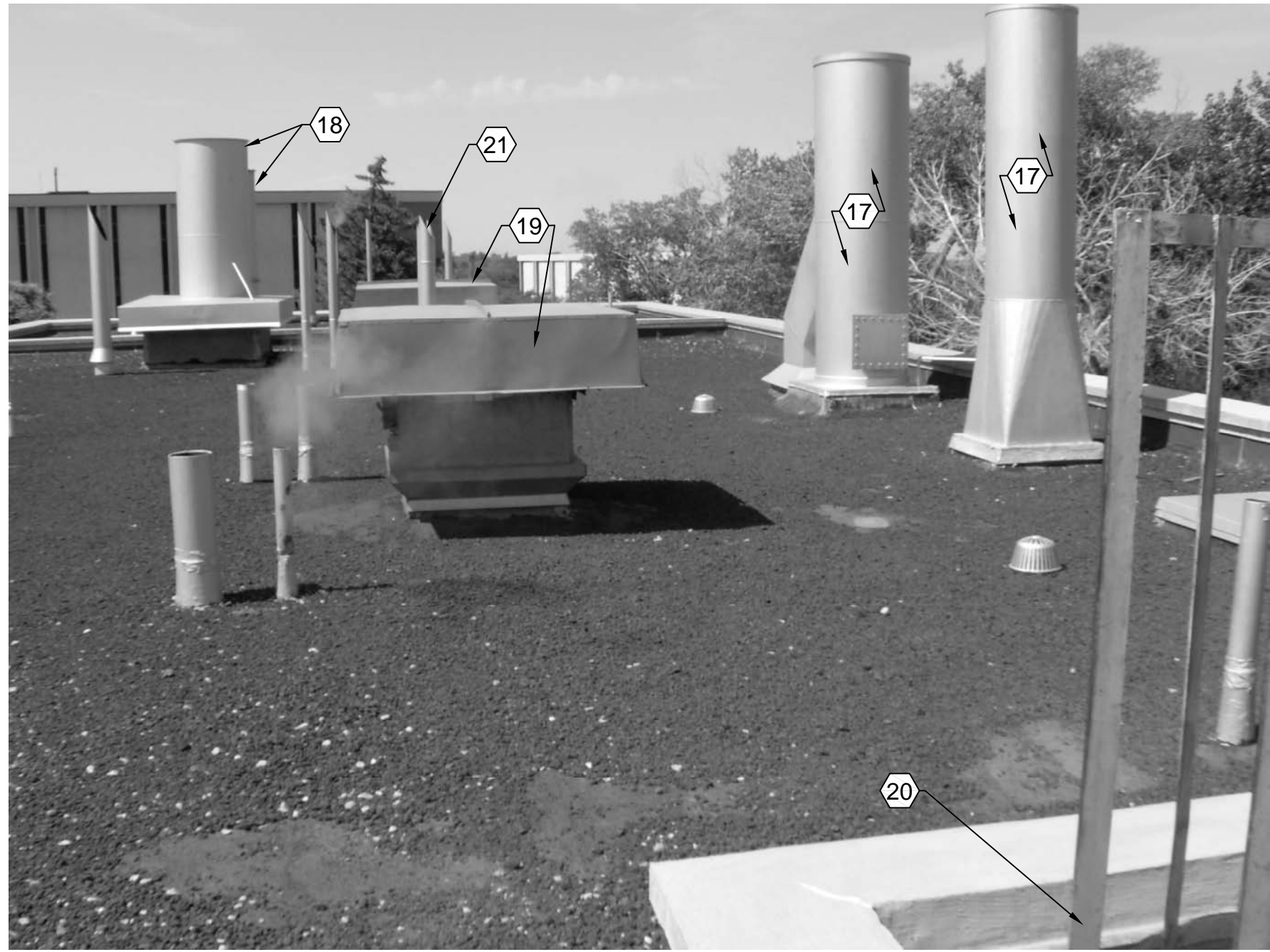
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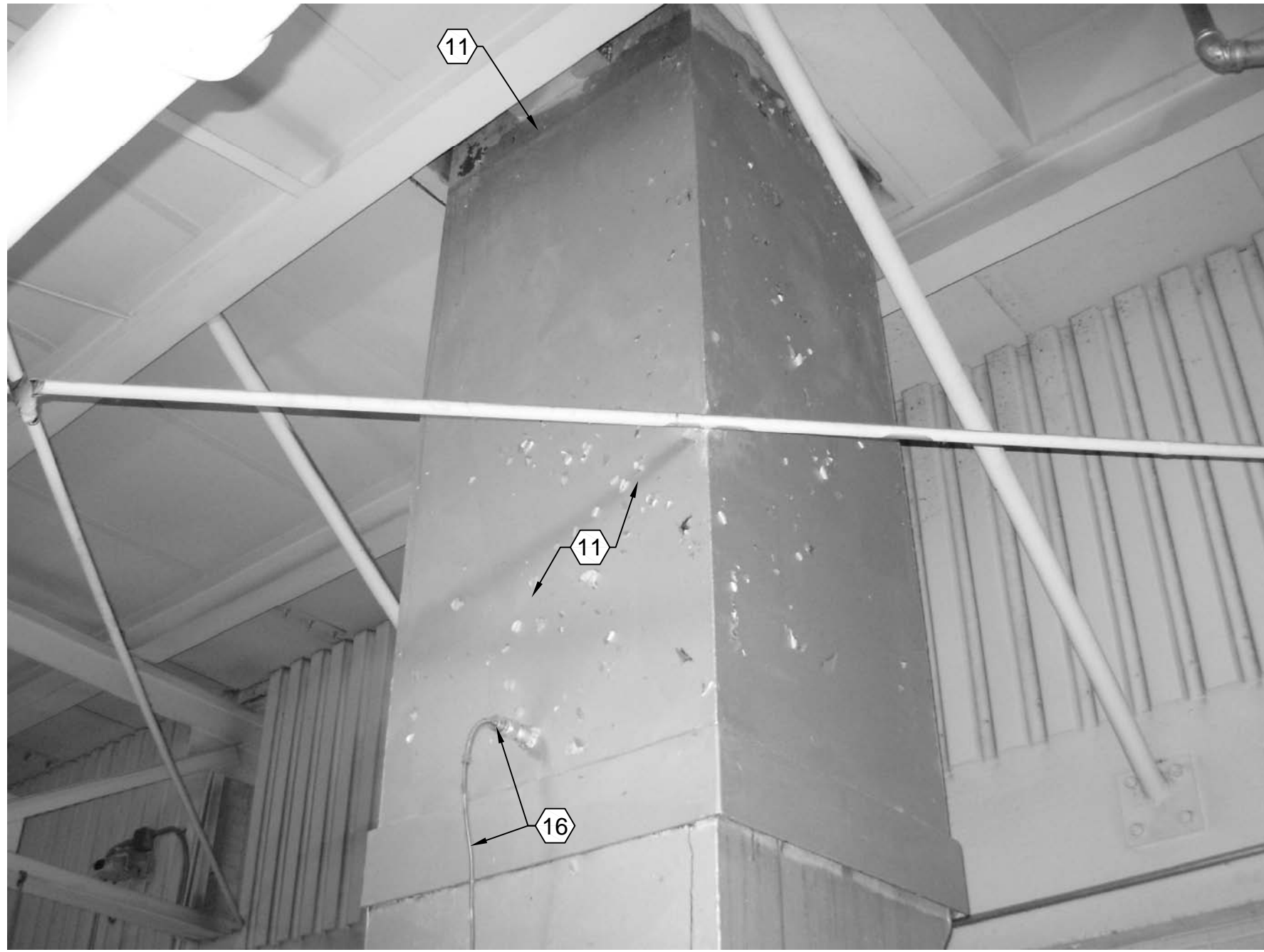
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SHEET NO. _____

LM**IM**



D1 ROOF LOOKING SOUTH
SCALE: NONE



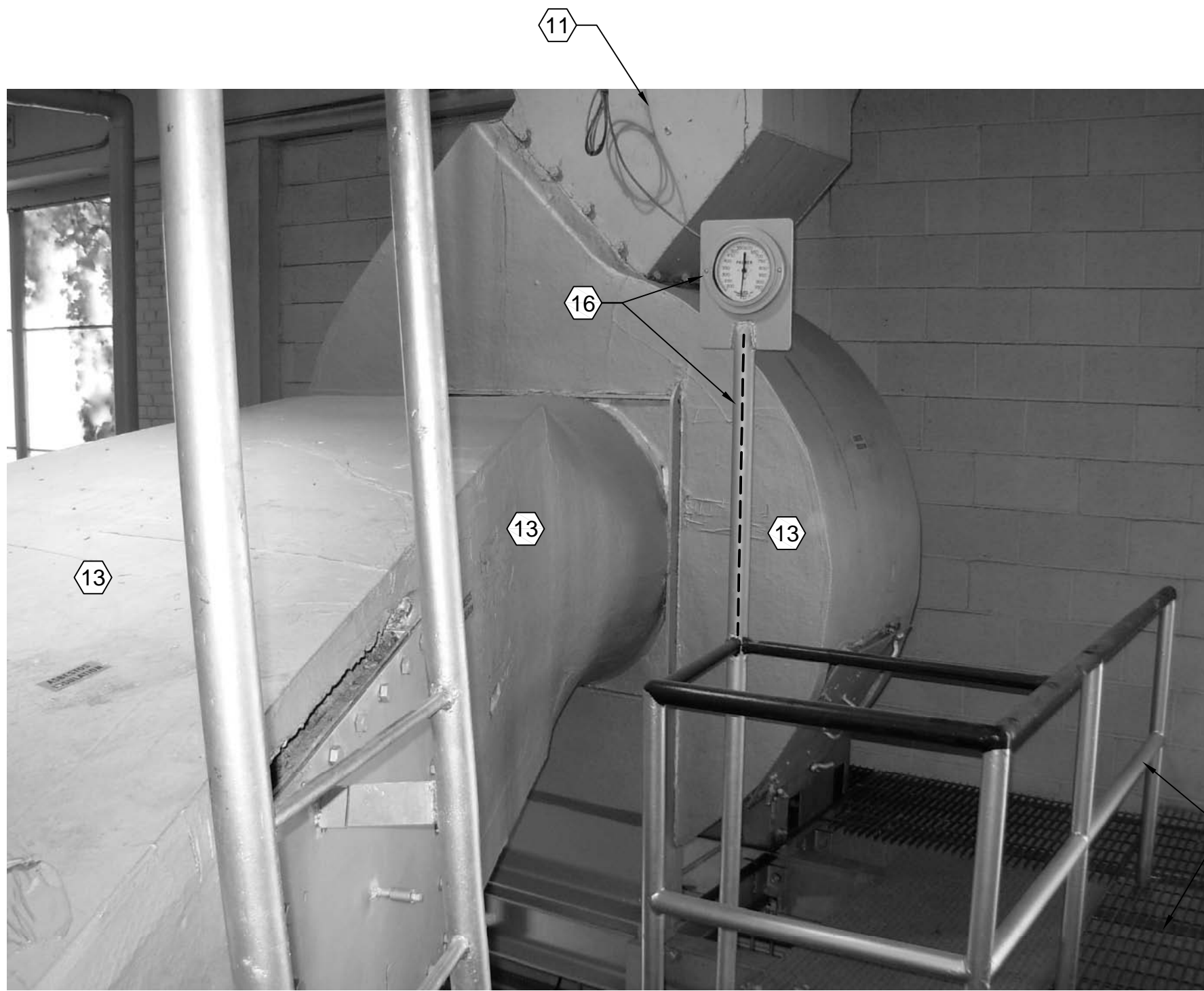
D3 BOILER #2 STACK
THRU-ROOF LOOKING SOUTHWEST
SCALE: NONE



D4 EASTSIDE CATWALK
AND STAIRS LOOKING SOUTH
SCALE: NONE



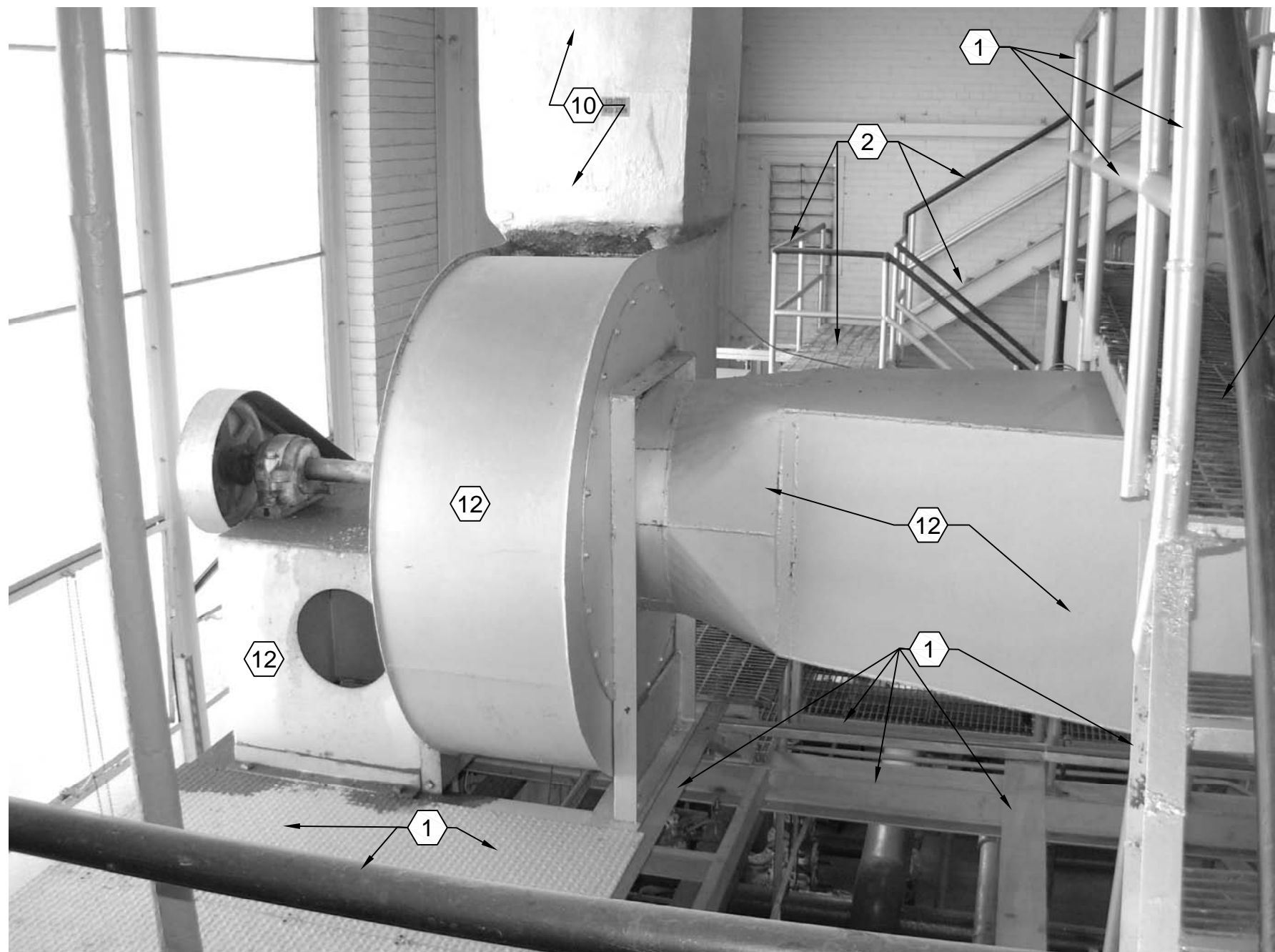
B1 BOILER #1 STACK THRU
ROOF LOOKING NORTHWEST
SCALE: NONE



B3 BOILER #2 FAN, STACK, CATWALK
AND STRUCTURAL LOOKING SOUTHWEST
SCALE: NONE



B4 EASTSIDE CATWALK LOOKING NORTH
SCALE: NONE



A1 BOILER #1 FAN, STACK, CATWALK
AND STRUCTURAL LOOKING NORTH
SCALE: NONE



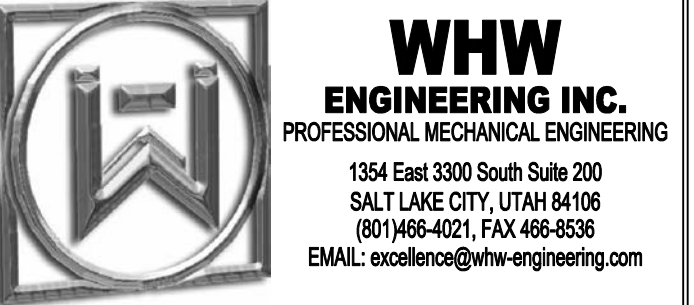
A3 CATWALK BETWEEN BOILER #1
AND DEAERATOR LOOKING WEST
SCALE: NONE



A4 NORTHEND CATWALK LOOKING WEST
SCALE: NONE

- SHEET NOTES:
- 1 REMOVE EXISTING CATWALKS, HANDRAILS, STAIRS, ETC. WHEN NO LONGER REQUIRED BY DEMOLITION CREWS.
 - 2 EXISTING CATWALKS, HANDRAILS, STAIRS, ETC. SHALL REMAIN.
 - 3 EXISTING CONTROL ROOM.
 - 4 EXISTING STAIRS TO BOILER ROOM FLOOR SHALL REMAIN.
 - 5 EXISTING STEAM HEADER, DRIP LEGS, AND TRAPS SHALL REMAIN.
 - 6 REMOVE EXISTING BOILER #1 AND BURNER AND ALL ASSOCIATED PARTS, PIPING, VALVES, STRUCTURAL, ETC.
 - 7 REMOVE EXISTING BOILER #2 AND BURNER AND ALL ASSOCIATED PARTS, PIPING, CONTROLS, VALVES, STRUCTURAL, ETC.
 - 8 EXISTING CONDENSATE RECEIVER TANK AND ALL PIPING, VALVES, ETC. FOR SYSTEM #1 SHALL REMAIN.
 - 9 EXISTING DEAERATOR AND ALL PIPING, VALVES, ETC. FOR SYSTEM #1 SHALL REMAIN.
 - 10 REMOVE EXISTING INTERIOR STACK FROM BOILER #1 AND PATCH ROOF OPENING.
 - 11 REMOVE EXISTING INTERIOR STACK FROM BOILER #2 AND PATCH ROOF OPENING.
 - 12 REMOVE BOILER #1 FAN, STACK, MOTOR, ELECTRICAL, ETC.
 - 13 REMOVE BOILER #2 FAN, STACK, MOTOR, ELECTRICAL, ETC.
 - 14 EXISTING RESTROOM SHALL REMAIN.
 - 15 REMOVE SHIPS LADDER WHEN NO LONGER REQUIRED BY DEMOLITION CREW.
 - 16 REMOVE EXISTING STACK SENSOR AND THERMOMETER.
 - 17 REMOVE FLUE STACKS ABOVE ROOF.
 - 18 EXISTING STACKS FOR BOILERS #3 AND #4 SHALL REMAIN.
 - 19 FRESH-AIR PENTHOUSE SHALL REMAIN.
 - 20 ACCESS LADDER TO ROOF.
 - 21 REMOVE EXISTING RELIEF PIPING FROM BOILER RELIEF VALVES AND PATCH ROOF.

CONSULTANTS



PROJECT NAME & ADDRESS

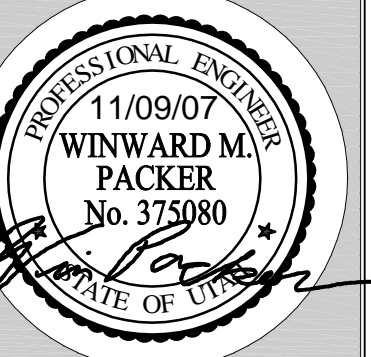
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**ROOF & CATWALK
DEMOLITION
PHOTOGRAPHS**

SHEET NO.

MD106